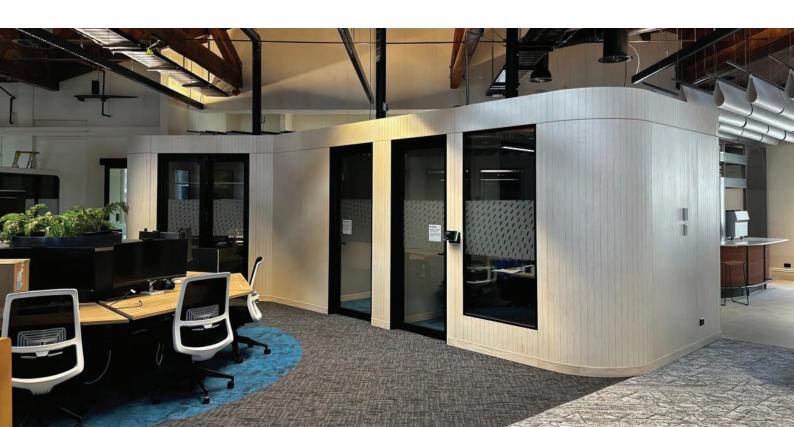


Working alongside Unispace, XFrame assisted in the design, off-site fabrication and installation of five high performance room-in-room demountable meeting spaces. These spaces were installed in the central floor plate of the Meridian Energy's new head office.

- Vullet Variable Va
- New spaces required to be free standing, removable, and not impact the Category 1 Heritage Listed Building.
- XFrame's self braced, demountable design met these requirements.
- Spaces had to comply with Living Building Challenge (LBC) standards focusing on regeneration.
- LBC criteria included water, energy, health, equity, happiness, and beauty.
- XFrame facilitated stringent material specifications and effective waste management.
- Off-site manufacturing minimized onsite waste and allowed for recycling of material off-cuts.

- Heritage building is base isolated for seismic protection; structures within must maintain integrity during events.
- Significant uplift resistance (floor anchors) necessary for stability due to old raised timber floor system.
- Complicated structural design due to nonorthogonal alignment and settled floor with over 50mm level changes.
- Introduced reinforced bottom plate leveled across the uneven floor and anchored to major structural elements.
- Required connection strength of 18kN hold-downs to transfer load into XFrame structural panels.

Finished Meridian Energy Head Office.



Project Highlights

Meridian Energy's 2024 re-fit of the Old Bank Arcade Building in Wellingtons central business district is a radical statement of intent, demonstrating the highest standards of sustainable office design.



Specifications

- × 71 Modular Walls/Windows/Door Panels across 6x Standard Skews
- × 15 Modular Roof Panels
- x 160m² of prefabricated demountable external timber finishes.
- **x** 230m² of prefabricated demountable internal PET finishes.
- × 2700mm high demountable wall panels with false ceilings at 2400mm from finished floor level.
- Integrated 600mm radius curved wall panels with pre-applied curved linings.
- x 1200mmx2700mm demountable wall panel with 2200mmx1080mm door opening.
- **x** 1200mmx2700mm demountable wall panel with 2200mmx1080mm window opening.
- **x** STC46 rated wall build-up (12+4+92+12+12).

Installation of XFrame's meeting spaces.



Finishes

Red List Free (Declare Label) Birch Plywood with 60mm Space Vertical Groove (finished with natural paint company clearcoat).



- × DSORB 12mm PET Acoustic Panel on ReadyClips.
- × 2x10mm Acoustic Glazing (double glazed) in Aluminium Frames

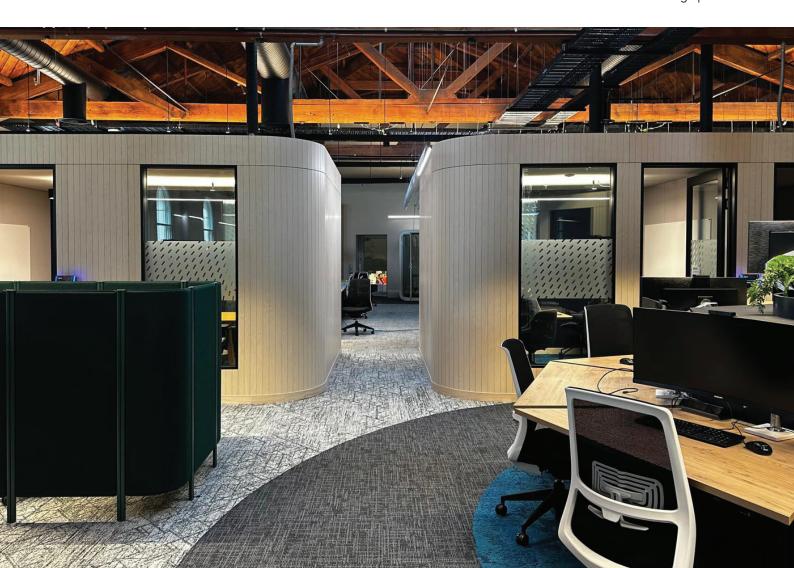
Design Features

- × Base Isolated.
- × Heritage Category 1 Listed Base Building
- × Non-orthogonal spatial planning.
- × Living Building Challange mandates.
- × Full FSC Certification.
- × Sovereign supply and manufacturing.

Carbon Performance

- \times -4.4 kg CO2 /m² of wall frame.
- \times -5.65 kg CO2 /m² of linings (plywood).
- **x** 3.4 kg CO2 /m² offset emissions via supplier offset programs (PET).

Finished build of XFrame's meeting spaces.



^{*}Biogenic Emissions Only

