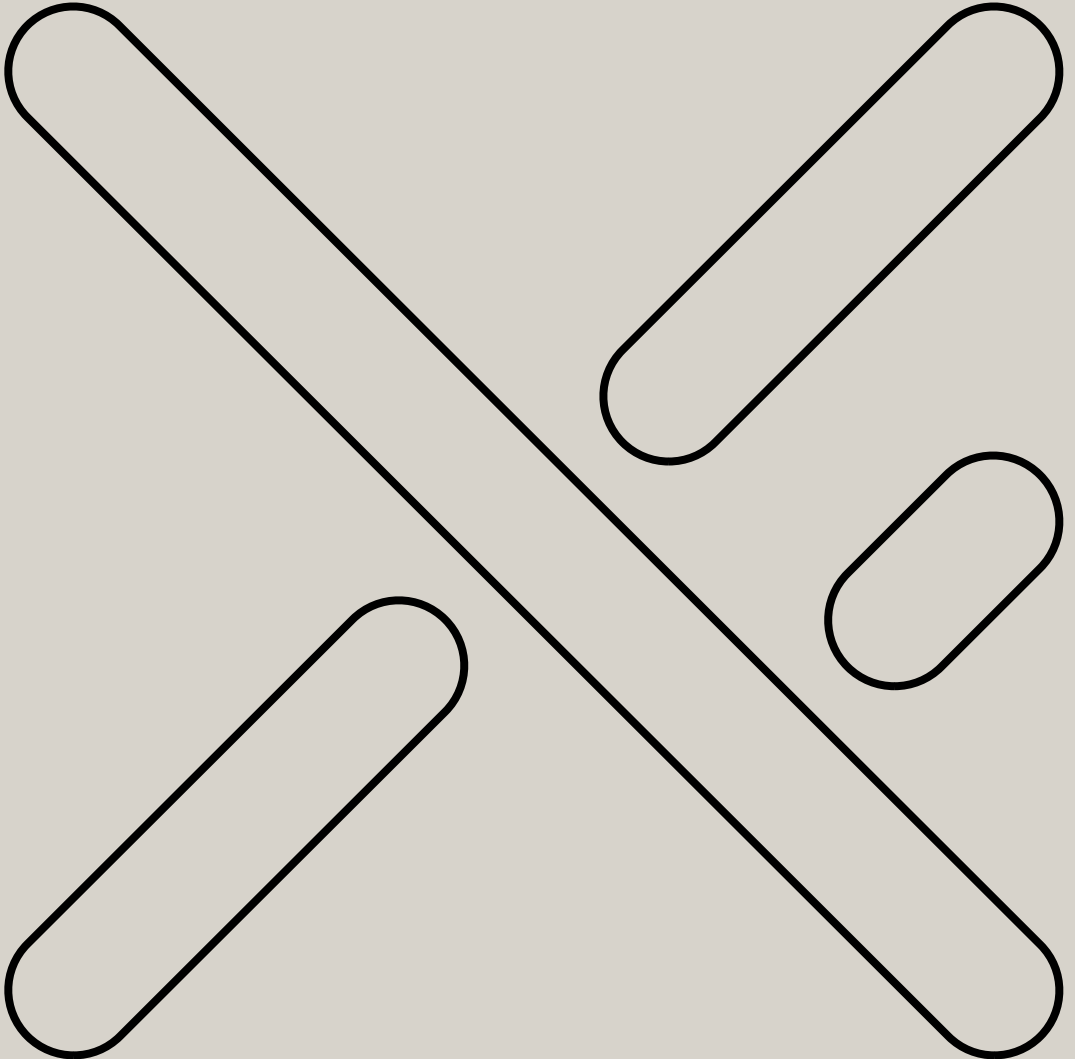


 XFRAME

Products  
Spaces  
Structures





# The XFrame™ System

Designed for now, built for later.

More than 40% of the world's waste is the result of building, construction, renovation and demolition. XFrame is a radical response to this global waste challenge.

XFrame is a precision fabricated lightweight framing system that enables change-of-use, end-of-life recovery and circularity across institutional, commercial and residential construction sectors. XFrame is backed by a proprietary technology platform that automates design, manufacturing, component tracking and re-deployment logistics of recovered materials.

XFrame is manufactured from sustainably sourced (FSC certified) engineered wood products using precise computer controlled milling machines. The finished product is a series of modular parts that are designed to slot together without the need for nails, screws or adhesives.

Using XFrame, our goal is to make the deconstruction and reuse of building materials an attractive and economically feasible end-of-life strategy.

XFrame offers solutions for corporate office fit-outs, educational spaces, retail, commercial and residential buildings. Each offering follows the same core XFrame logic of a scalable, self-braced, adaptable and reversible built infrastructure where components within each system are fully interchangeable.



A kit of standard parts.



Scalable and flexible spaces.



Designed for disassembly.



Designed for circularity.



Made from natural and renewable materials.



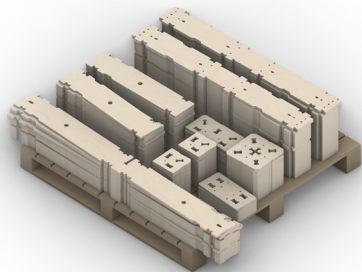
An engineered structure.  
Millimetre perfect.

# Circular, Flexible, Scalable

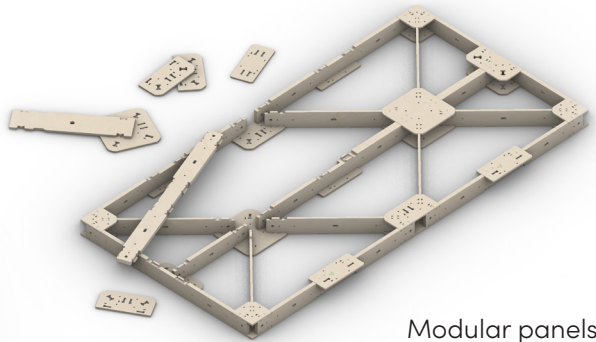
Standard XFrame parts are configured into panels based on the designer's specification. Standard panels can be easily modified to accommodate custom features while maximising the use of standard parts.

The unique braced geometry of XFrame means it is possible to use standardised prefabricated wall linings that can be easily and reversibly fixed to the structural frame.

At its end-of-life, these linings can be removed; frame panels separated, disassembled; parts reconfigured and deployed into new useful spaces.



Standardised parts.



Modular panels.

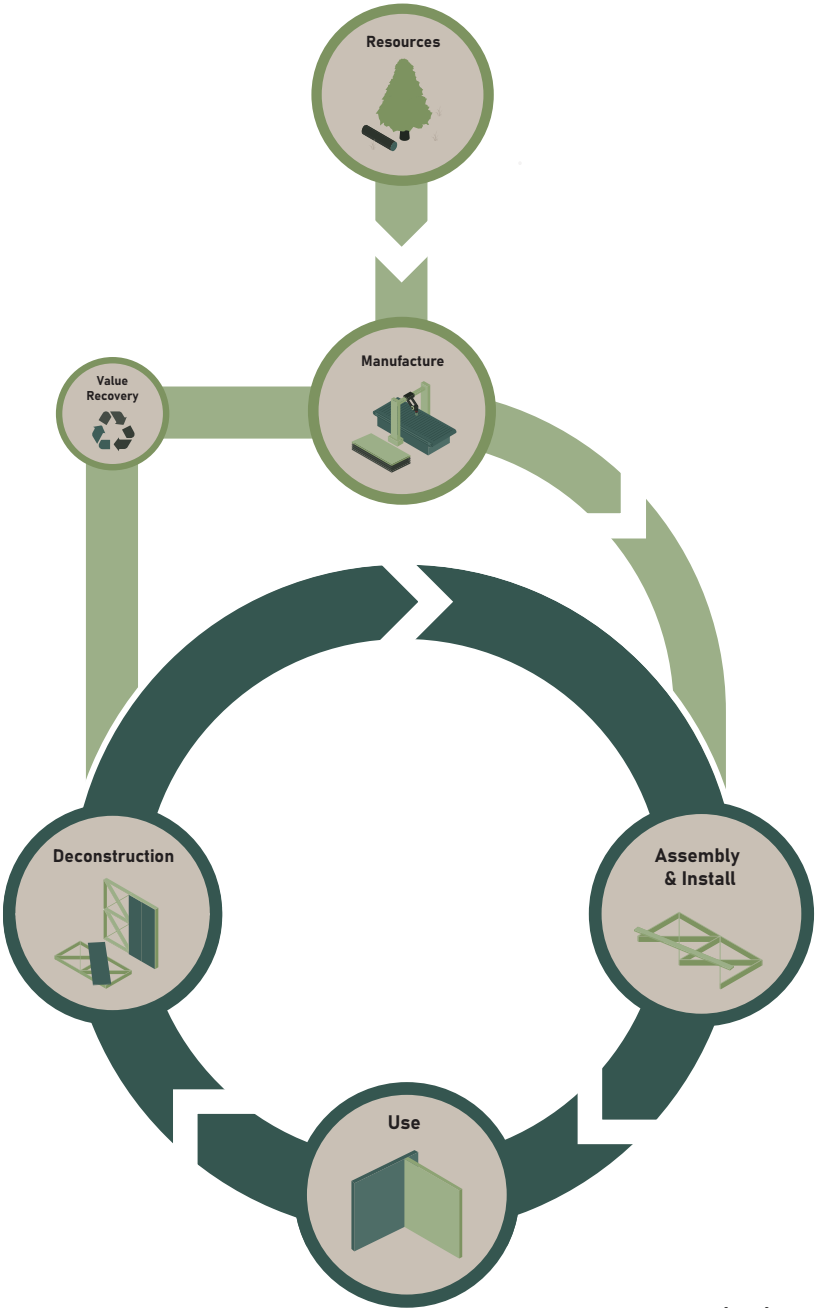


Adaptable spaces.



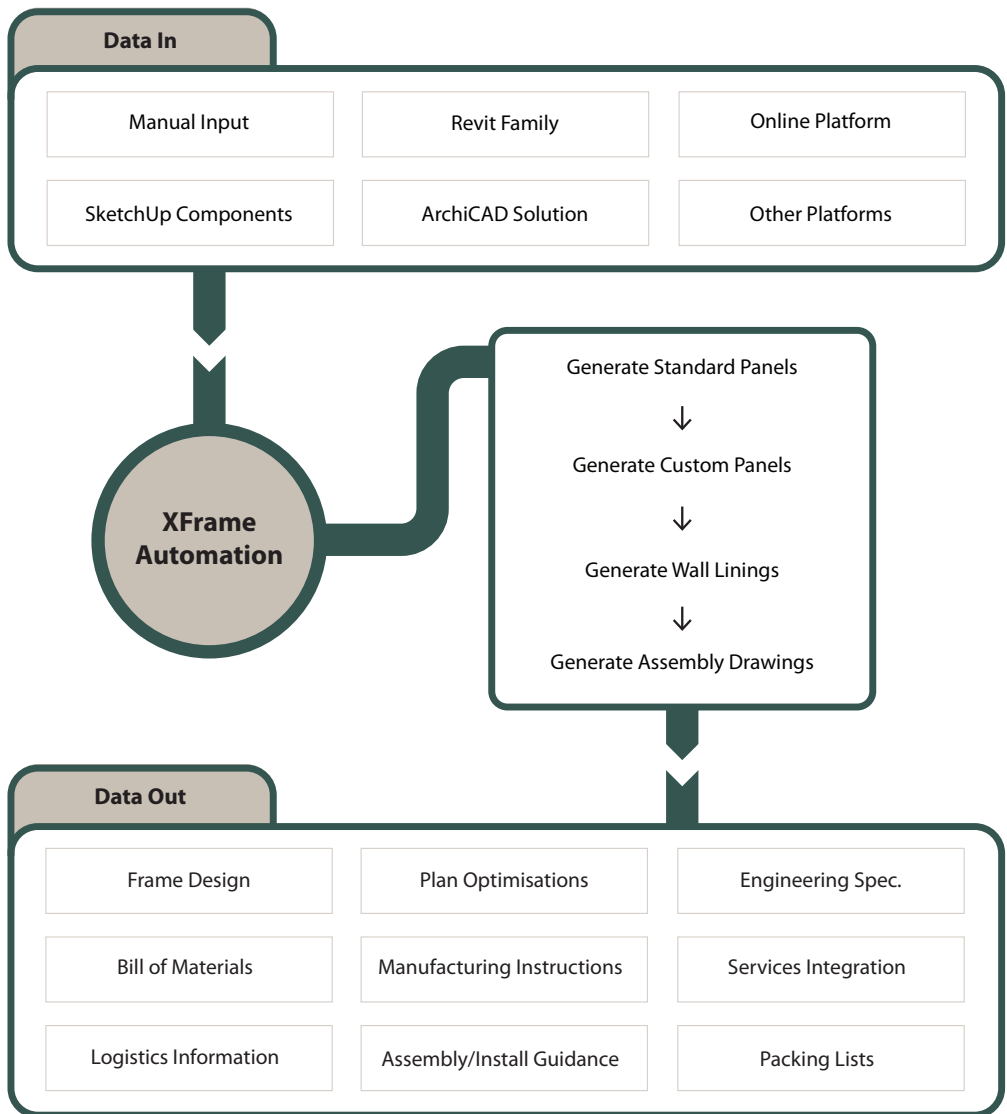
# XFrame and Circularity

XFrame strives to achieve a complete circular ecosystem from renewable resource harvesting through to install, use and end-of-life recovery. Each XFrame component is engineered for deconstruction and reuse in accordance with circular design specifications.



# Automation

XFrame takes advantage of a series of proprietary in-house automation workflows to rapidly design and deploy the XFrame technology. Using this infrastructure, we provide builders with detailed project-specific assembly instructions and documentation to make adoption of the XFrame system hassle-free. To underpin the circular credentials of XFrame, we also index and track deployed XFrame componentry. Collecting data across projects facilitates recovery and reuse while also allowing us to further optimise the technology.





# Products. Spaces. Structures.

Three XFrame™ product variations have been designed to service different use cases. Each system follows the same core logic of a scalable, self-braced, adaptable and reversible wall framing system where components within each system are interchangeable.

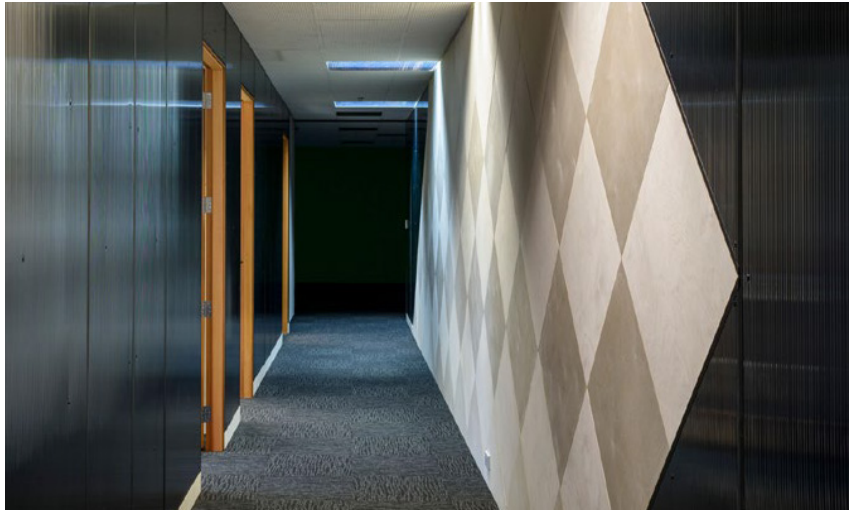


1.

## PRODUCTS

Office, education and workplace furniture designed for change. This version of XFrame has been developed specifically for modular free-standing applications such as desk dividers, single-, double- and four-person meeting rooms or booths as well as a range of kitset acoustic and privacy wall partitions.

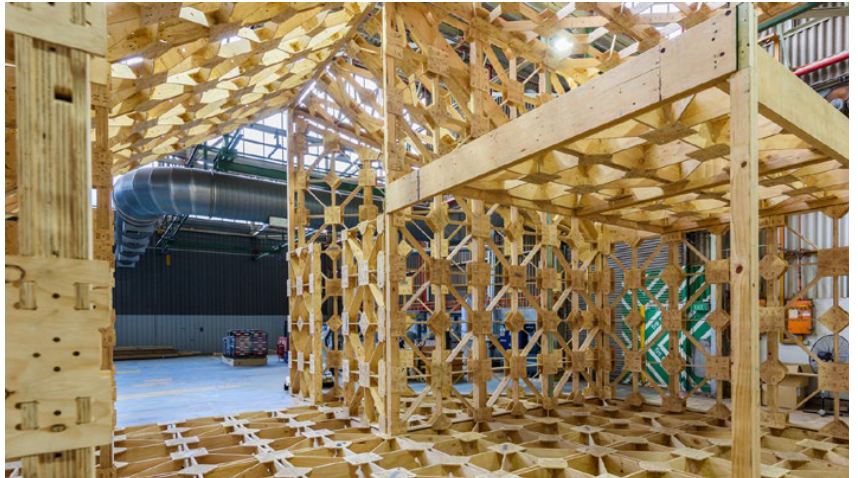




2.

## SPACES

XFrame is highly suited as lightweight non-load bearing partition walls for commercial, educational, and retail use cases. XFrame can be installed with minimal disruption, lined with prefabricated and prefinished panels and easily adapted over time as building users needs change.



3.

## STRUCTURES

Developed as a load bearing wall, floor and roof framing system the XFrame load bearing system brings the advantages of prefabrication and circularity to residential construction. XFrame is ideal for any load-bearing modular construction up to two stories.

# Specifications

	Products		Space + Structures	
	Modular free-standing applications such as desk dividers, single, double, and four person meeting rooms/booths for office, workplace, retail and education.		Partition walls for commercial, educational, and retail use cases. Load-bearing modular walls for ADU's, residential additions, and temporary structures.	
<b>Standard Module</b>	525mm	1 ¾ ft	600mm	2 ft
<b>Efficient Module</b>	1050mm	3 ½ ft	1200mm	4 ft
<b>Depth</b>	98mm	3.85"	92mm / 4" & 140mm / 6"	
<b>Weight</b>	13.5kg for a standard 2100mm x 1050mm unlined birch framed panel	30 lb	16kg for a standard 2400mm x 1200mm unlined pine framed panel	36 lb
<b>Frame material</b>	FSC and/or PEFC B/Birch, Spruce and/or Pine Ply		FSC and/or PEFC Structural Untreated Pine Plywood	
<b>Loading capacity</b>	Non-structural		11KN/m Axial, 60 BU/M unlined (lateral) and 1kN/2.4m face-loading	
<b>Panel joining</b>	M6 30mm JCB/JCN		M6 90mm Hex Head ZP Bolt	
<b>Single span limit</b>	2050mm	7 ft	3000mm	10 ft
<b>Lining support</b>	475mm (18") centers for pressure clips		580mm (22") centers for pressure clips	

## LINING SPECIFICATION

Any sheet lining material can be used with the XFrame system providing it has a minimum dense substrate of 11mm (½") or greater. Lining materials can be prefabricated by XFrame and supplied as a kit of parts with wall framing or product offerings. Non-prefabricated linings can also be fixed on-site. XFrame recommends reversible fixings in all use cases to ensure framing recovery can take place.

Linings can be in sizes ranging from 600mm (2ft) square in 600mm (2ft) increments up to 1200mm x 3600mm (4ft x 12ft), or as materials and logistics allow. Sheets can be arranged vertically or horizontally. XFrame recommends 600mm wide panels as standard (2ft) for easier handling/reducing risk of damage.



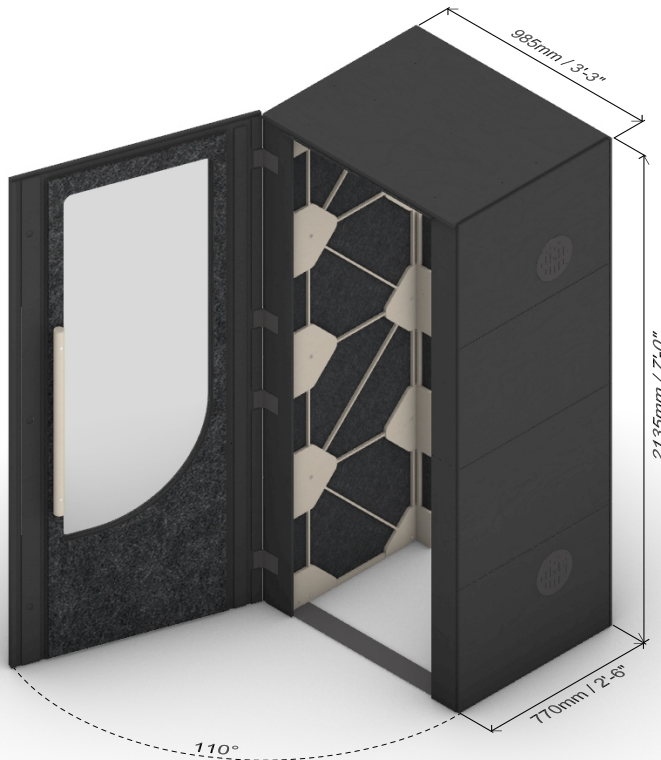
Mini Booth

XFRAME

# Mini Booth



A single-person, acoustically controlled space for video calling in open offices. The Mini is designed to fit efficiently in and around the superstructure of the office space and take advantage of previously underutilised floor space. Our Mini comes with a modular electrical kit as standard that includes ventilation, lighting and power supply.



### Compact footprint

The compact footprint of the Mini allows it to seamlessly integrate into busy office spaces.



### Easy handling

The Mini can come in parts or pre-assembled into panels. Both panels and parts fit easily in a small elevator.



### DIY assembly

XFrame Mini Booths can be assembled with simple hand tools in office environments without disruption.

## Lining options

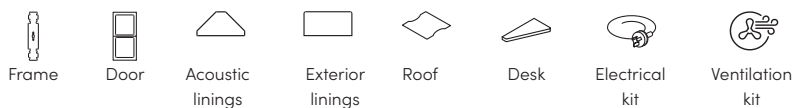
### Exterior rigid options

 Unfinished  Black  White + Custom

### Interior acoustic options

 Charcoal  Neutral  Grey

## Included parts



## Technical specifications

99kg      1.6 m<sup>3</sup>      FSC Birch or Pine      110° (Door Swing)





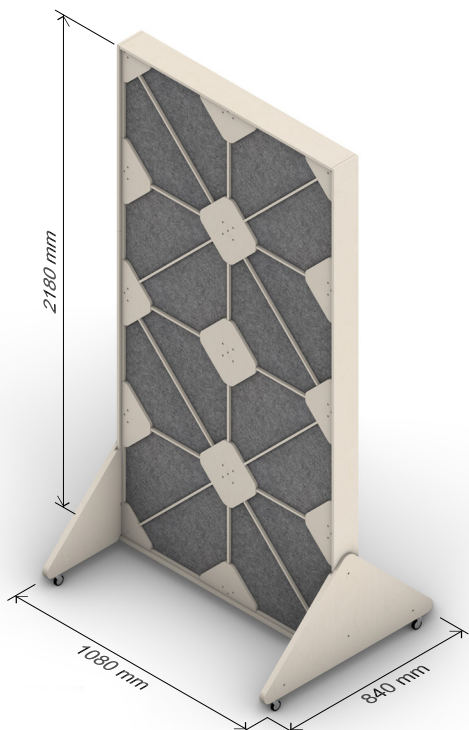
**Mobile Wall**



# Mobile Wall



The XFrame Mobile Wall is an acoustically treated instant partition to aid in the control of acoustic and visual privacy in open offices and educational spaces. Panels can become productivity hubs, incorporating writable, pin-able and magnet linings, shelving and even monitors.



### Mobile

Panels are highly mobile with in-built lockable wheels specified as standard.



### Extendable

Mobile Wall units can be easily joined to other panels to quickly create bespoke spaces.



### DIY assembly

XFrame Mobile Wall panels can be assembled with simple hand tools in office environments.

#### Lining options

#### Rigid options

Black

Birch

White

Clear

#### Acoustic options

Black

Grey

Neutral

+ Custom

#### Included parts



Frame



Acoustic linings



Exterior linings

#### Configurable Parts



Fixed feet



Movable feet



Linings



Accessories

#### Technical specifications

40 kg

0.3 m<sup>3</sup>

FSC Birch or Pine

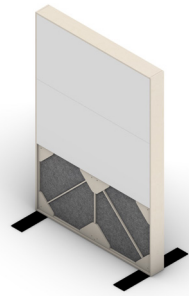
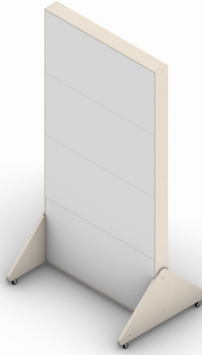
# Mobile Wall Options



**Feet Options**

Fixed Feet

Movable Feet

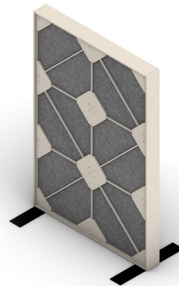
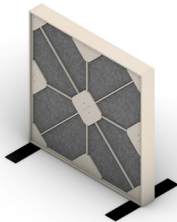


**Lining Options**

Inset Lining

Face Fixed Lining

Half Face Fixed Lining



**Height Options**

Low Panel (1100mm)

Medium Panel (1580mm)

Tall Panel (2100mm)





Booth

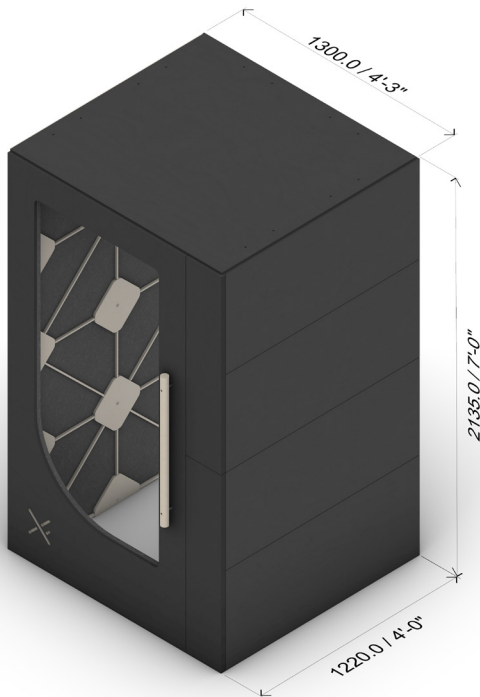
XFRAME



# Booth



The XFrame Booth is an acoustically controlled space for extended video conferencing in open offices. The internal volume is 20% larger (and a work surface twice the size) of similar market solutions, ideal for extended video calls and productivity. Our booth comes with a modular electrical kit as standard that includes ventilation, lighting and power supply.



### Comfort

The Booth has a larger internal space which enhances comfort for long term use, calls, meetings and productivity.



### Easy handling

The included parts are designed for ease of handling and fit easily in the smallest elevators.






### Expandable

Easily adapt a single booth into a double or triple person meeting space, making use of the same standard framing parts.

### Standard lining options

Contact XFrame for further material options.

### Exterior rigid options

 Black  Birch  White + Custom

### Interior acoustic options

 Black  Grey  Neutral

### Included parts



### Technical specifications

160 kg      3.9 m<sup>3</sup>      2p Assembly      110° (Door Swing)      0.8NRC



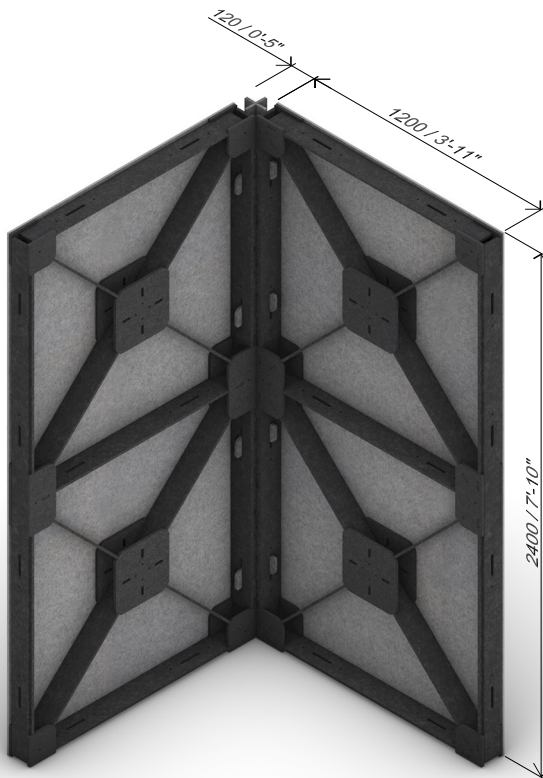
**XFrame Quiet**

 **XFRAME**

# Quiet Corner



XFrame Quiet combines high-performance recycled acoustic material with the modularity and simplicity of XFrame. Instantly improve the reverberant performance of your space without the need to fix acoustic panels to building surfaces. Panels can be printed-on, custom cut, face-fixed, inset or grooved.



### Lightweight

Frame and lining parts formed entirely from 12mm polyester sheets mean XFrame Quiet panels weigh less than 10kg each.



### Extendable

XFrame Quiet panels are designed to be easily extended and can be collapsed quickly for instant spatial changes.



### Single-tool assembly

A single allen key is required to assemble panels from individual flat-packed parts.

#### Finishing options

#### Frame and linings

 Charcoal

 Neutral

 Grey

+ Custom

#### Included parts



Frame



Acoustic linings



Lining clips

#### Custom options

Aa

Custom printing



Custom cutting

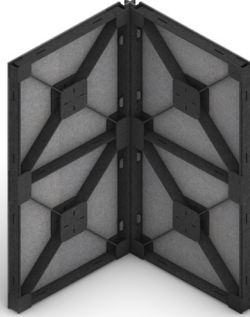
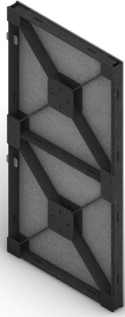
#### Technical specifications

10kg

5.6 m<sup>2</sup>

Min. 60% recycled polyester.

# Quiet Configuration Options



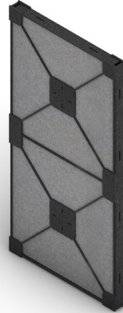
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**Layout options**

Single panel configuration

Corner configuration

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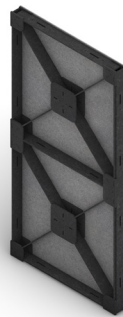
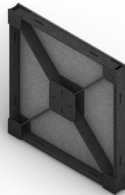
**Lining options**

Exposed frame

Inset linings

Face fixed linings  
Option to line both sides

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**Height options**

Half height (1200mm)

Full height (2400mm)

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# Spaces

## XFrame ANZ Breathe



XFrame has been engaged to deliver retail store fitouts for Australia and New Zealand Banking Group (ANZ). ANZ is Australia's 2nd largest bank (by assets) with more than 700 branches across the South Pacific. XFrame has provided ANZ with a complete modular store fitout solution. Modular wall framing panels with recycled PET bottle insulation, modular electrical solutions and FSC certified Tasmanian Oak Veneer linings form meeting, kitchen and customer facing spaces.







# XFrame ANZ Breathe

## Project specifications

XFrame allows ANZ to fulfill its vision of a branch that can be easily reconfigured as needs change over time while taking advantage of carbon sequestering materials and local manufacturing. As part of the ANZ fitout contract XFrame also manufactures and supplies bespoke planter boxes and workstations that are designed in alignment with circular ideals.

### Design and specifications:

- 2ft (600mm) and 4ft (1200mm) modular wall panels 9ft high (2700mm).
- Structurally independent spaces (floor anchors only).
- Integrated roof/lid system (spanning 10ft / 3m).
- Fully reversible fixed exterior and interior lining panels (prefinished in the factory).
- Bespoke curved modular corner posts designed to meet designers' custom specifications.
- Lining panel modularisation to match designers' custom specifications.
- Acoustically sealed negative shadow detail between lining panels.
- Prefabricated and reversibly fastened ½ inch acoustic ceiling treatment.
- Each room supplied with its own prefabricated 'plug 'n' play' electrical kit.
- Precision cut prefabricated recycled polyester insulation components.
- Acoustic ½ inch (12mm) laminated glazing panels.

### Manufacturing and installation:

- Full store prefabrication (for a 2700 sq ft / 260 m<sup>2</sup> store) in 4 to 6 weeks.
- Includes glazing, linings, wall and roof frame panels and ceilings.
- 4ft x 9ft panel assembly <20 minutes (including blind lining clips).
- Entirely fabricated on flatbed CNC milling equipment.
- Sub 0.07 inch (2mm) tolerances.
- Installation (on-site) <4 days.
- Validated multi-cycle performance (deconstruction and reconstruction) - 4 times and counting.





57 Willis

XFRAME



# Spaces

## 57 Willis

57 Willis is a co-working space located in the heart of New Zealand's capital city, Wellington. XFrame allows the newly established co-working space to plan for the future. Full-height XFrame partition walls between co-working zones creates privacy for occupants while also allowing the space to change over time as the tenants' needs change. The fixed partition walls at 57 Willis are supported by XFrame mobile walls. These allow another 'softer layer' of spatial flexibility within the co-working space. Each mobile wall is lined with colour matched 'inset' acoustic panels and whiteboards.



# 57 Willis

## Project specifications



### Design and specifications:

- 2ft (600mm) modular wall panels  
9ft high (2700mm).
- Fully reversible fixed exterior and interior lining panels  
(prefinished in the factory).
- Lining panel modularisation to match designers' custom  
specifications.
- 16x panels assembled is less than 45 minutes.
- Allows co-working space to adapt and grow over time.





**A3 Suite+**

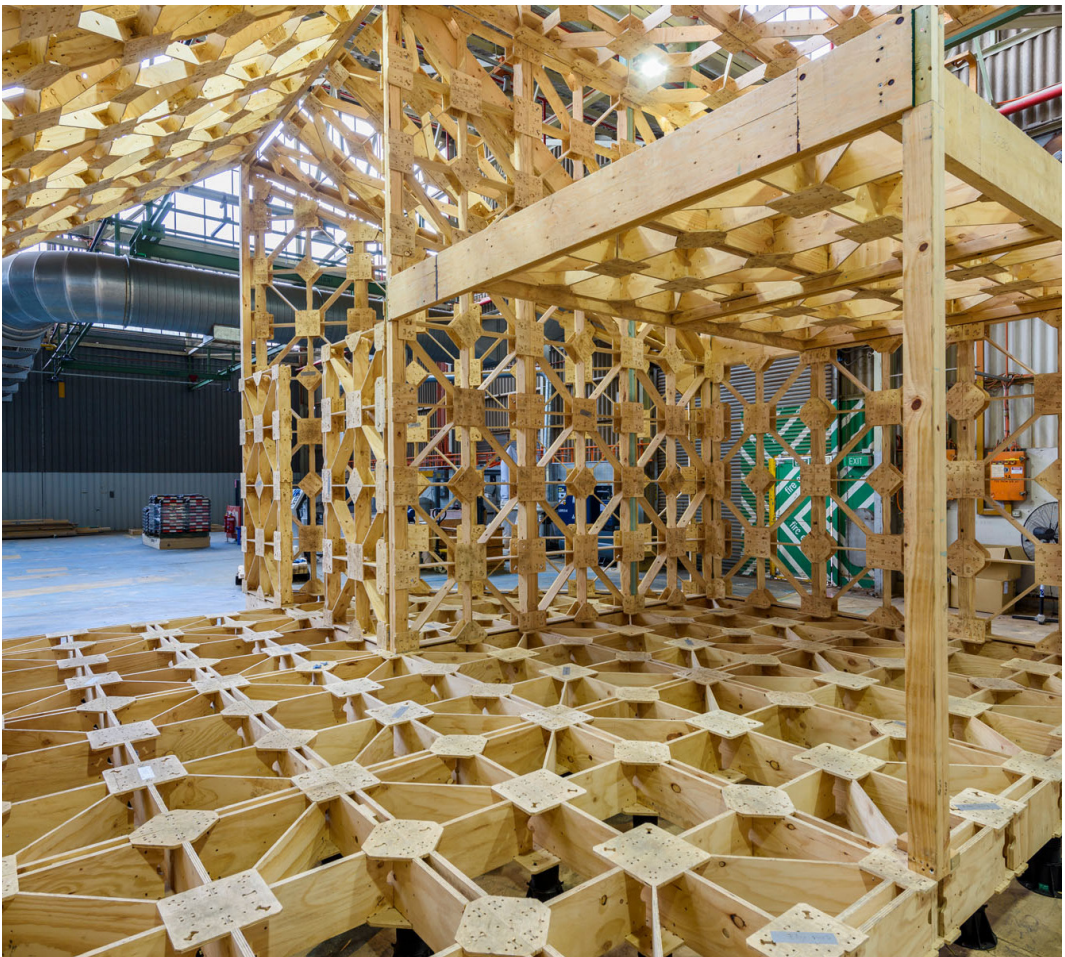
 XFRAME



# Structures

## A3 Suite+

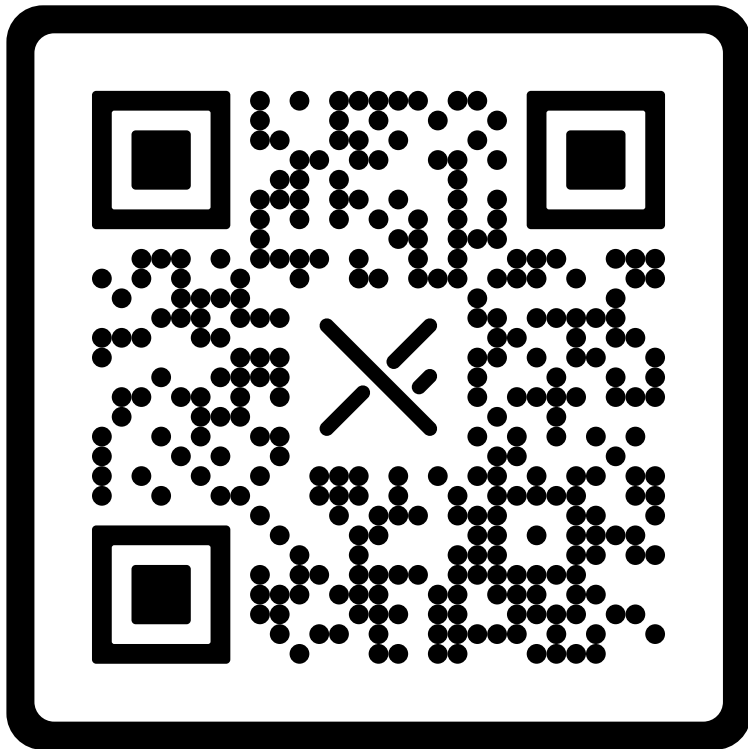
The A3 Suite+ is an XFrame demonstration project erected in Adelaide, South Australia. Designed to push the architectural limits of XFrame, this 600 sq ft / 55m<sup>2</sup> mezzanine building is composed of 3500 parts of XFrame, 180 of which are unique to the design. The A3 project showcases the use of XFrame as floor, wall and roof framing in a structural capacity.





Keep up to date with XFrame.

**Join our mailing list.**





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