

Fibre-cement based  
Permanent formwork  
Lightweight, load-bearing



Building better internal and external walls, façades,  
balustrades, blade & party walls, lift & stair cores  
and corridors

# Millions of m<sup>2</sup> installed in thousands of multi-residential projects

**AFS Logicwall®** is a fibre cement-based permanent formwork system and a faster alternative to conventional masonry and blockwork. CodeMark Certified and AS3600-compliant, logicwall® is load bearing for multi-level structures up to 30 floors.

Logicwall® panels are delivered with shop-drawn accuracy and labelled for rapid installation. Consisting of lightweight panels created by bonding hard-wearing CSR Cemintel® fibre-cement sheeting against galvanised steel stud frames, logicwall® panels are load bearing (when core-filled) but lightweight enough for manual installation.

The logicwall® panels consistently provide a flat, true surface to deliver high quality finishes.

**An ideal performer in the construction of multi-residential apartments, hotels, student accommodation, shopping centres, hospitals, prisons and aged care facilities.**

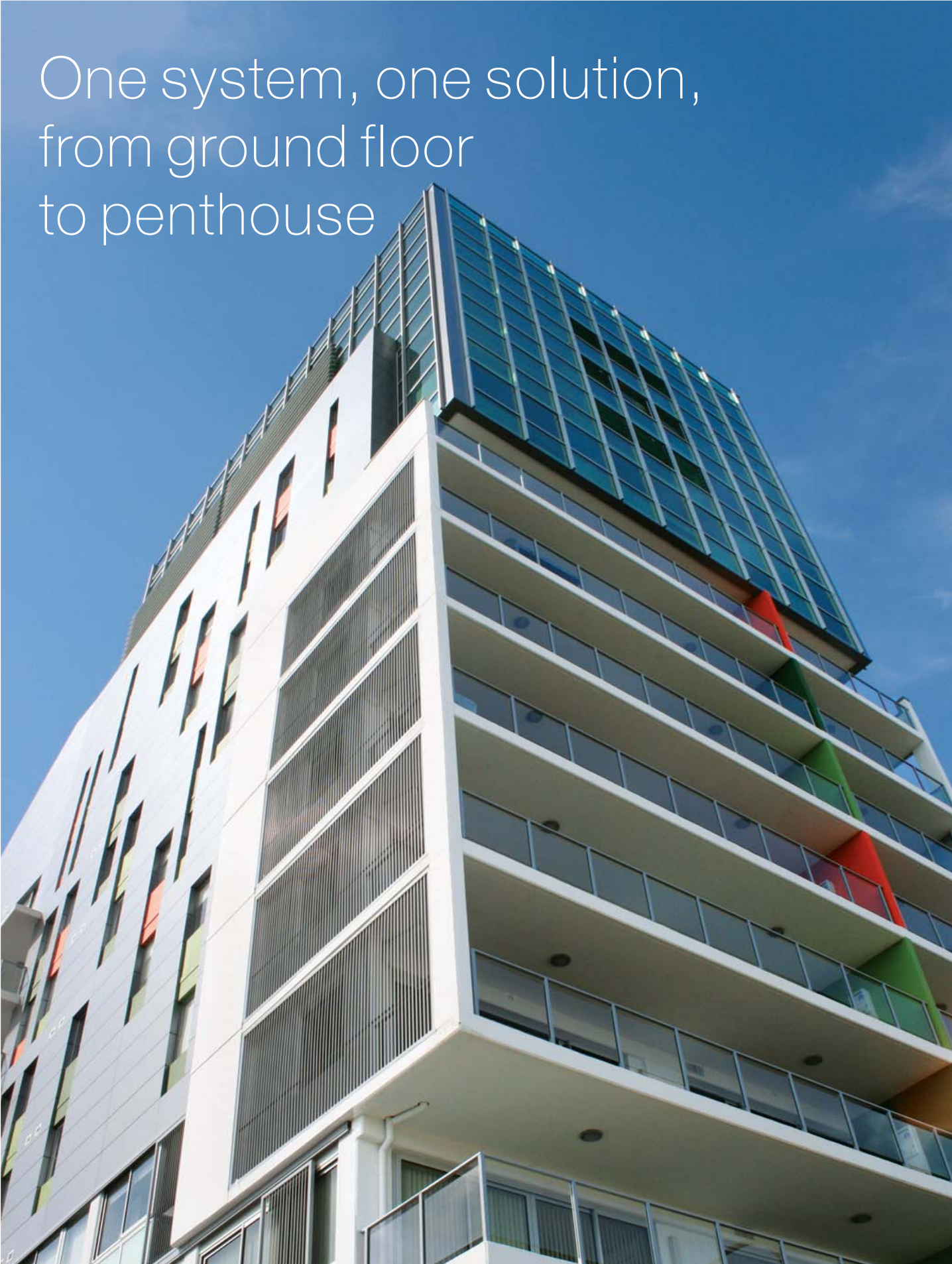


Load bearing walling solution  
with a substrate ready for finishing

Preferred walling system  
in thousands of projects

afs logicwall® panels come with shop-drawn accuracy, CodeMark Certification and a track-record of faster completions





One system, one solution,  
from ground floor  
to penthouse

Preferred in thousands of projects nationwide logicwall® is favoured by architects, engineers and builders

## SYSTEM BENEFITS

### Why architects prefer logicwall®

- Proven performer in thousands of projects
- Structural substrate for rendered and designer façades
- CodeMark Certified and AS3600 compliant
- Exhaustive design and technical resources

### Why engineers prefer logicwall®

- Load bearing, CodeMark Certified and AS3600 compliant
- Choice of five wall thicknesses, with options for single and double reinforcement
- Comprehensive access to technical resources and guides
- Access to in-house Engineers

### Why builders prefer logicwall®

- Significantly faster floor-cycles can save days, or even weeks, compared to conventional masonry and blockwork
- Fewer trades needed and sites are kept cleaner and more efficient
- Significantly reduced or no crane dependency
- Panels provide a reliably even finish

### Why installers prefer logicwall®

- Panels are easily unloaded and manually installed
- Shop-drawn and labelled with unique identifications makes for speedy installation





Fibre-cement based permanent formwork for internal + external walling

Preferred by architects, engineers and builders alike, afs logicwall® panels are delivered with shop-drawn accuracy and featuring corresponding labels for easy installation. They are load bearing but lightweight enough to enable manual installation. The panels provide reliably flat, true surfaces to help deliver high quality finishes.



Benefits include:



Speed of construction and earlier handovers



Ease of materials handling – not crane dependent



Simplicity of build



Panels delivered with shop drawn accuracy



Load bearing structure



Reduced footprint, maximises livable space



Solid concrete wall



CodeMark Certified & AS3600 compliant



Acoustic performance



Fire performance



High quality finish



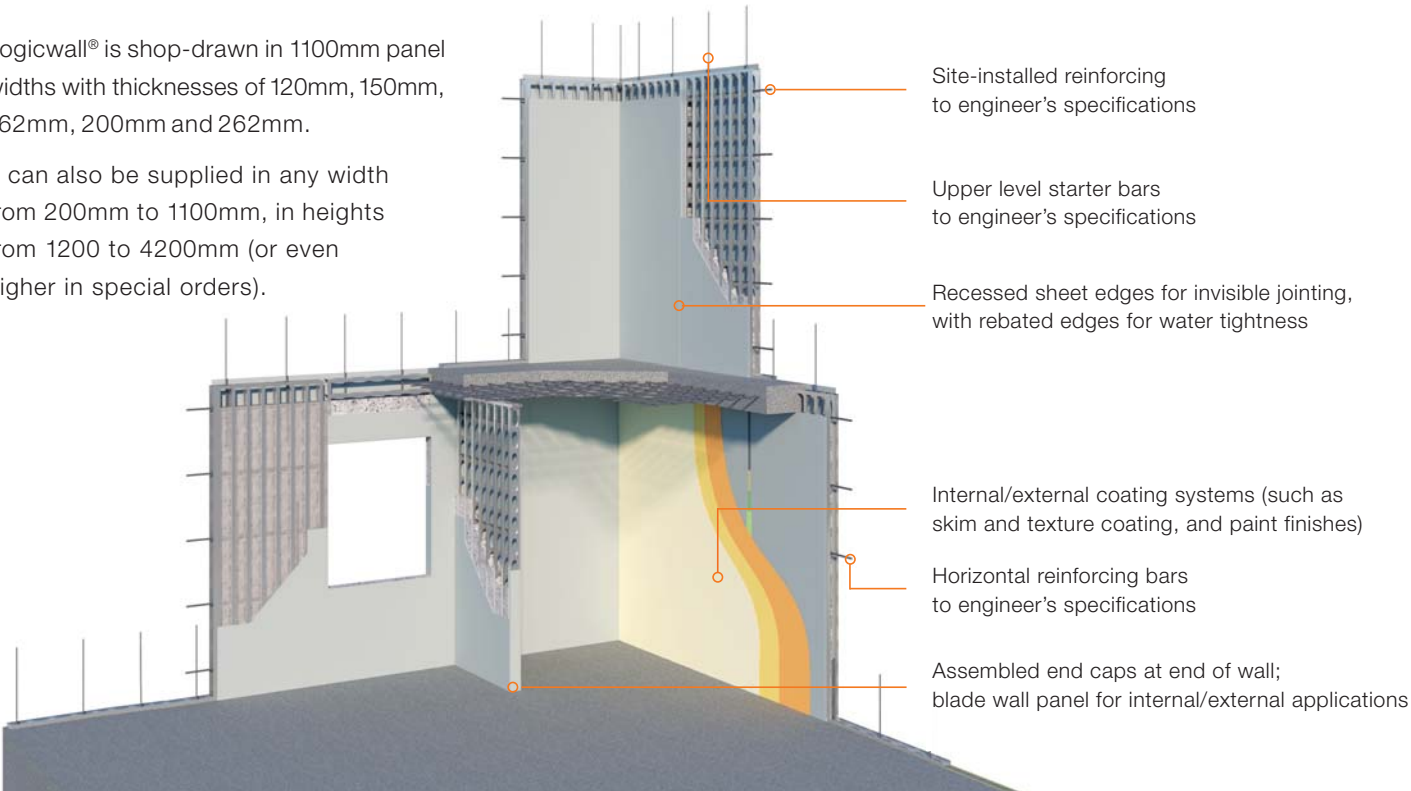
Significant waste reduction



Building better internal and external walls, façades, balustrades, blade & party walls, lift & stair cores and corridors

Logicwall® is shop-drawn in 1100mm panel widths with thicknesses of 120mm, 150mm, 162mm, 200mm and 262mm.

It can also be supplied in any width from 200mm to 1100mm, in heights from 1200 to 4200mm (or even higher in special orders).



| Wall Type                                                   | LW120<br>Single reinforcement                           | LW150<br>Single reinforcement                           | LW162<br>Single reinforcement                          | LW200<br>Single reinforcement                               | LW200D<br>Double reinforcement                            | LW262<br>Double reinforcement                   |
|-------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------|
| Wall Thickness                                              | 120mm                                                   | 150mm                                                   | 162mm                                                  | 200mm                                                       | 200mm                                                     | 262mm                                           |
| Filled Wall Mass (kg/m <sup>2</sup> )                       | 290                                                     | 360                                                     | 394                                                    | 480                                                         | 480                                                       | 630                                             |
| Application                                                 | External façades, batten/sheet party walls, balustrades | External façades, batten/sheet party walls, blade walls | Stand-alone party walls, external façades, blade walls | Lift and stair shafts, stand-alone party walls, blade walls | Deep beams, lift & stair shafts, shear walls, blade walls | Shear walls, lift and stair shafts, blade walls |
| Acoustic Rating (Rw)<br>Rw + Ctr                            | 50<br>47                                                | 54<br>50                                                | 55<br>50                                               | 58<br>53                                                    | 58<br>53                                                  | 62<br>57                                        |
| Max Fire Resistance Level (based on CSIRO testing)          | 240/240/180 <sup>†</sup>                                | 240/240/180 <sup>†</sup>                                | 240/240/240 <sup>+</sup>                               | 240/240/240 <sup>+</sup>                                    | 240/240/240 <sup>+</sup>                                  | 240/240/240 <sup>+</sup>                        |
| Design Axial Capacities <sup>§</sup> (based on AS3600-2018) | 320 kN/m <sup>~</sup>                                   | 415 kN/m <sup>^</sup>                                   | 555 kN/m <sup>^^</sup>                                 | 870 kN/m <sup>^^^</sup>                                     | 2055 kN/m <sup>#</sup>                                    | 3460 kN/m <sup>#</sup>                          |

<sup>†</sup> CSIRO testing, max fire load = 233kN/m @ FI-FI = 3000mm  
<sup>+</sup> CSIRO testing, max fire load = 200kN/m @ FI-FI = 3000mm  
<sup>~</sup> Based on FI-FI = 2700mm, ecc < 0.05t<sub>wp</sub>, k = 0.75, H<sub>wp</sub> = 2025, f<sub>c</sub> = 25MPa, FRL 90/90/180  
<sup>^</sup> Based on FI-FI = 2700mm, ecc < 0.05t<sub>wp</sub>, k = 0.75, H<sub>wp</sub> = 2025, f<sub>c</sub> = 32MPa, FRL 90/90/180  
<sup>^^</sup> Based on FI-FI = 2700mm, ecc < 0.05t<sub>wp</sub>, k = 0.75, H<sub>wp</sub> = 2025, f<sub>c</sub> = 32MPa, FRL 120/120/240  
<sup>^^^</sup> Based on FI-FI = 2700mm, ecc < 0.05t<sub>wp</sub>, k = 0.75, H<sub>wp</sub> = 2025, f<sub>c</sub> = 32MPa, FRL 180/180/240  
<sup>#</sup> Based on FI-FI = 2700mm, ecc < 0.05t<sub>wp</sub>, k = 0.75, f<sub>c</sub> = 40MPa, FRL 180/180/240  
<sup>§</sup> Indicative capacities. Actual capacities to be determined for specific wall location and design conditions. Refer AFS Rediwall Design Manual and AS3600.

Load bearing, lightweight panels ensure easier materials handling with less or no crange, faster installation and quicker core filling



# Recommended installers are audited to ensure their conformance with logicwall® installation methodology

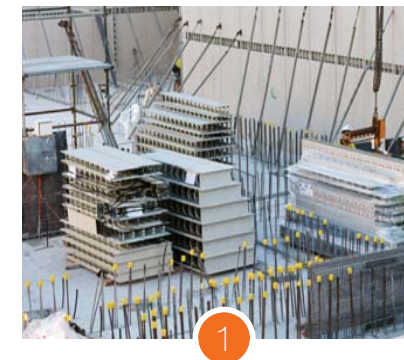


## C O N S T R U C T I O N

Versatile enough for internal/external walls, deep beams, shear walls, façades, balustrades, blade & party walls, lift & stair cores and corridors

**Available in five wall thicknesses**, logicwall® suits the most challenging architectural and engineering demands, being ideal for multi-residential and commercial applications such as hotels, student accommodation, shopping centres, hospitals, prisons and aged care facilities.

Its panels can be easily installed by hand and then core-filled to form fire and sound-rated, load-bearing walls. The cement sheeting remains in place as sacrificial formwork and provides an even, high quality substrate for finishing including skim coating, acrylic rendering and painting.



Logicwall® panels are easily stacked to maximise site-efficiency



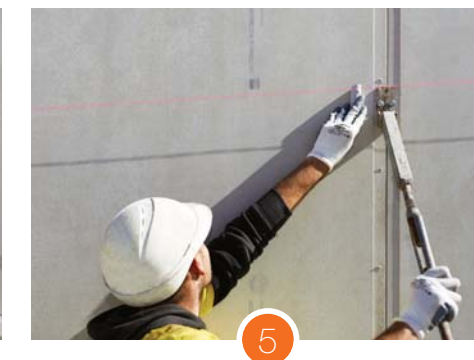
Shop-drawn panels are labelled for easy installation



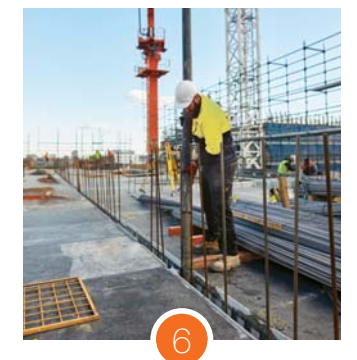
Lightweight panels can be readily positioned without craneage



Robust floor tracking system ensures quick installation



Once erected panels are plumbed and braced in readiness for core filling



Core filled via a boom pump sees walls become load bearing

## A F T E R - S A L E S S E R V I C E

*Dedicated project co-ordinators offer on site training & assistance*

**Customers are greatly reassured** by having AFS' team of expert project co-ordinators visit their project and monitor the correct installation of the logicwall® system.

This service, available in most major centres, comprises everything from instruction on unloading through to the supervision of core filling.



# in-house & on site expertise

customers rely on the expertise of our  
in-house engineers and estimators

and the peace-of-mind from using  
our certified installers

## afs design team

We offer the very best project advice through our in-house team of experts, including engineers, estimators and technical advisers.

You'll also get access to the afs design toolbox, a library of design and construction guides, and our own team of project specialists.

## certified installers

To ensure the highest quality installation of afs logicwall® in your project, we strongly recommend you engage only AFS-endorsed installers.

AFS Logicwall® certified installers are regularly audited to ensure their adherence to the construction methodology of our logicwall® product. Only those installers that we deem to pass are issued with a Certificate of Installation confirming that they continue to conform to our installation methods.

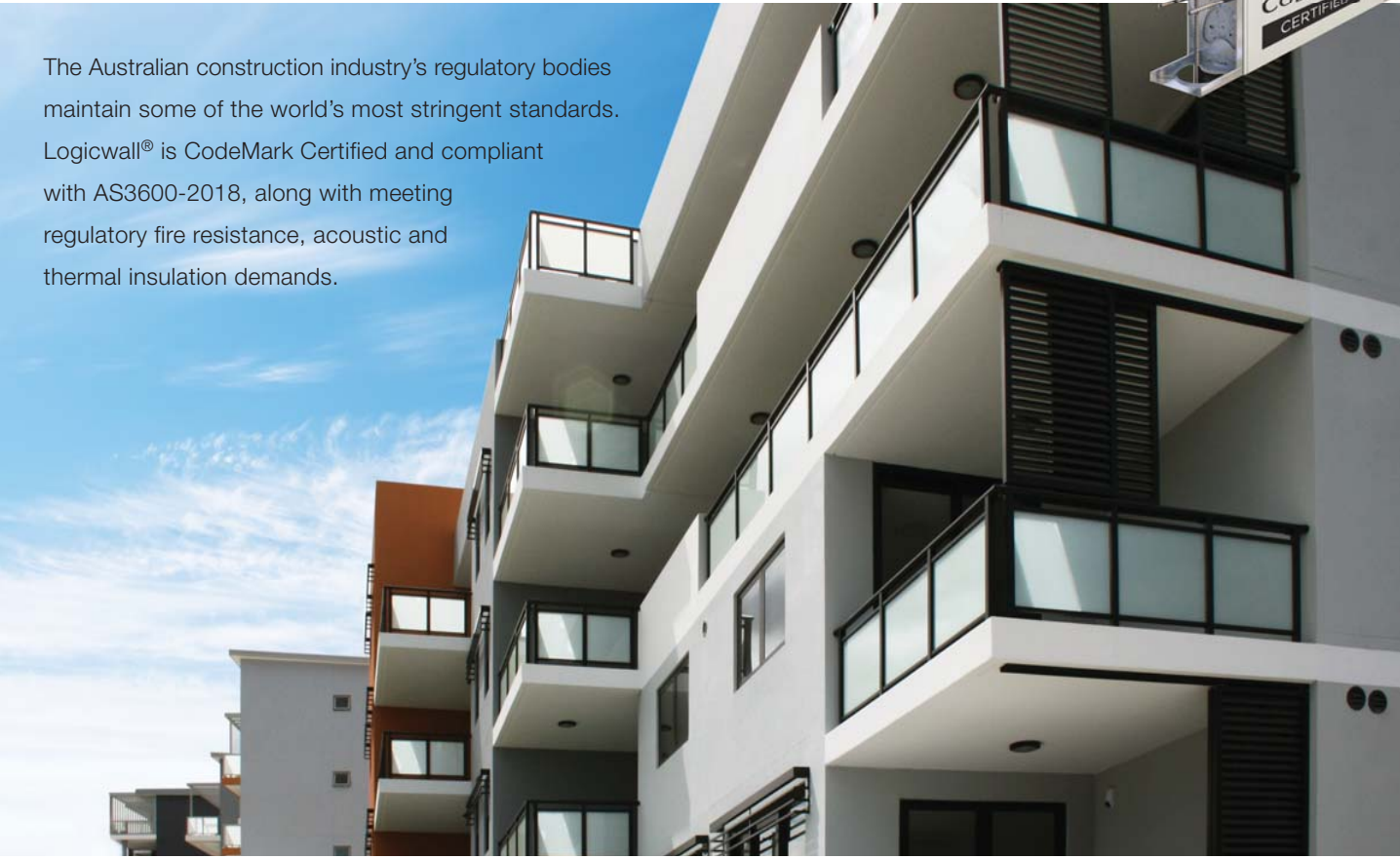




A photograph of a modern building facade. The building features large, light-colored panels, likely concrete or stone, and prominent red structural elements. Large windows with dark frames are visible, some with balconies. The text 'Load bearing walling solutions for commercial and residential projects' is overlaid in the top left corner.

Load bearing  
walling solutions  
for commercial  
and residential  
projects

CodeMark Certified and AS3600 compliant, logicwall® also meets demands for acoustic, fire and weatherproofing performance



The Australian construction industry's regulatory bodies maintain some of the world's most stringent standards. Logicwall® is CodeMark Certified and compliant with AS3600-2018, along with meeting regulatory fire resistance, acoustic and thermal insulation demands.



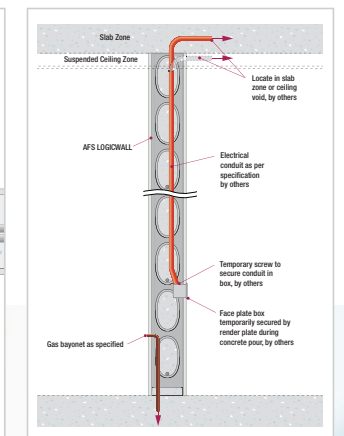
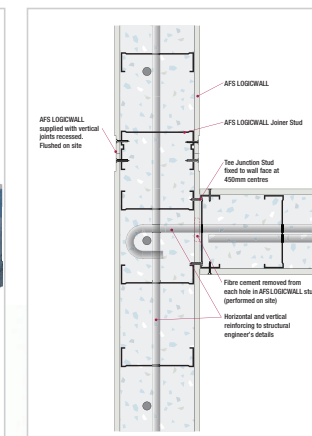
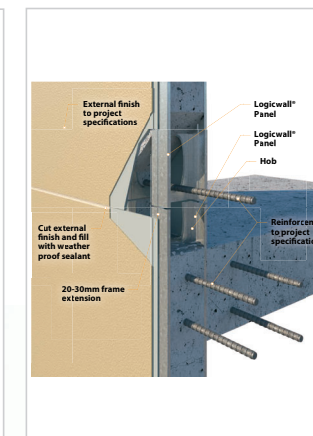


Our in-house expert team of engineers can help with advice for your project

AFS offers architects, engineers and builders a wealth of technical reference and in-house engineering, drafting and estimating expertise.

This ensures a customer can get the best advice on a project at the concept design phase or when plans are available. Building professionals enjoy how easy the AFS website makes it to upload plans for assessment and estimation.

Additionally, customers can access the AFS Design Toolbox, a comprehensive kit of design resources and construction guides including BIM (Building Information Modeling) files to ensure that designing, specifying and building with logicwall® is made easy.



Customers enjoy ready reference to technical manuals, papers and design guides

The Design Toolbox includes:

AFS Logicwall® Design Guide • Standard Details (PDF and DWG) • Standard Architects Specification NATSPEC Specification

The afs logicwall® Design Guide covers:

applications • properties • structural design internal/external design considerations performance • environment • trade coordination installation • certification and architectural detailing



Fibre cement-based permanent formwork for internal and external walling, including boundary and party walls, façades, corridor and blade walls, balustrades, lift & stair shafts



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