

Fibre-cement based
Permanent formwork
Lightweight, load-bearing



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

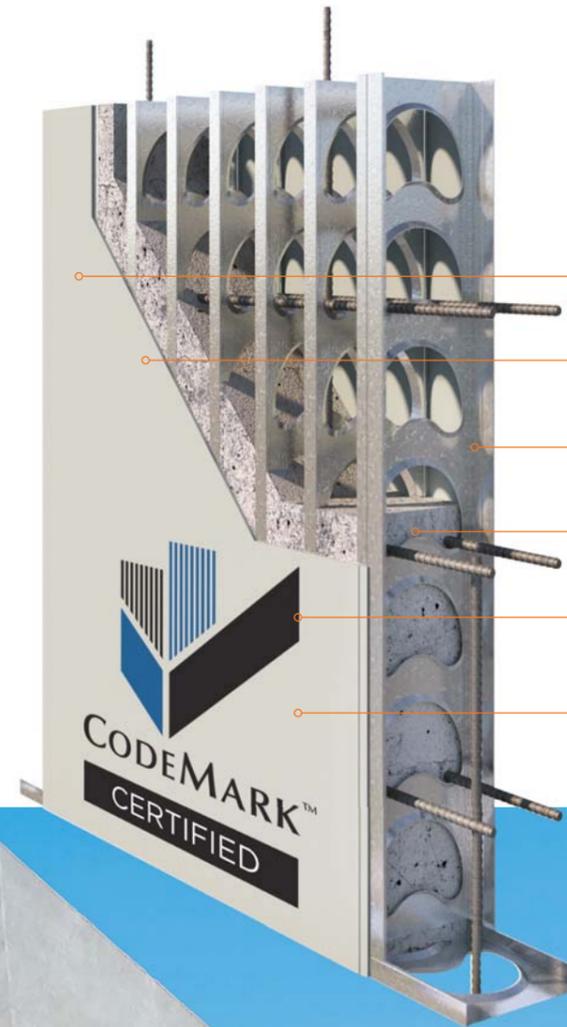
Millions of m² installed in thousands of multi-residential projects

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.



Shop-drawn, modular walling solution
Load bearing for internal and external walling,
easier materials handling, reduced or no craneage needed

Panels formed with industry-renowned Cemintel® fibre-cement sheets

Consistent clean, even surfaces for quicker completions

Durable galvanised steel stud framing

Large kidney-shaped holes to maximise flow during core filling (LW200/LW262)

CodeMark Certified for peace-of-mind

Each panel labelled to ensure rapid installation

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



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



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



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:

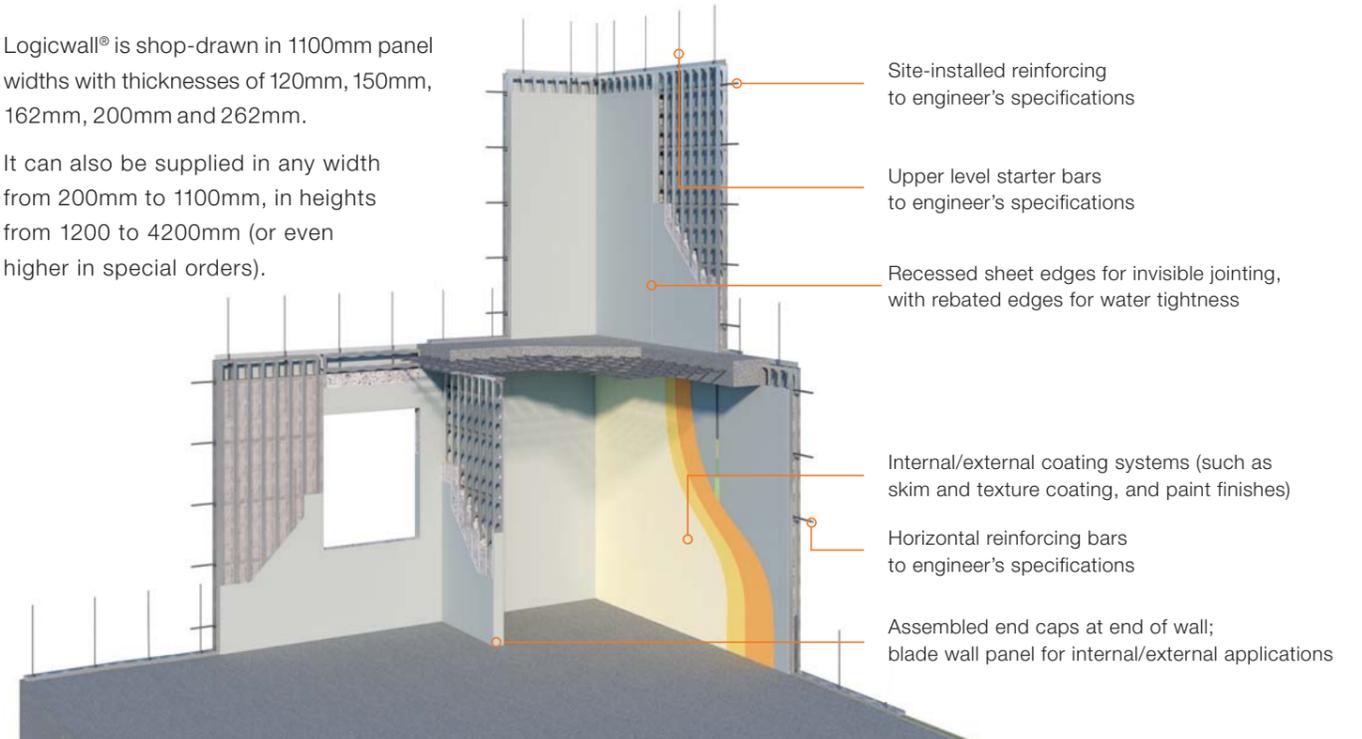
	Speed of construction and earlier handovers		Ease of materials handling— not crane dependent
	Simplicity of build		Panels delivered with shop drawn accuracy
	Load bearing structure		Reduced footprint, maximises livable space
	Solid concrete wall		CodeMark Certified & AS3600 compliant
	Acoustic performance		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 Single reinforcement	LW150 Single reinforcement	LW162 Single reinforcement	LW200 Single reinforcement	LW200D Double reinforcement	LW262 Double reinforcement
Wall Thickness	120mm	150mm	162mm	200mm	200mm	262mm
Filled Wall Mass (kg/m ²)	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) Rw + Ctr	50 47	54 50	55 50	58 53	58 53	62 57
Max Fire Resistance Level (based on CSIRO testing)	240/240/180 [†]	240/240/180 [†]	240/240/240 [†]	240/240/240 [†]	240/240/240 [†]	240/240/240 [†]
Design Axial Capacities [§] (based on AS3600-2018)	320 kN/m [~]	415 kN/m [^]	555 kN/m ^{^^}	870 kN/m ^{^^^}	2055 kN/m [#]	3460 kN/m [#]

[†] CSIRO testing, max fire load = 233kN/m @ F-I = 3000mm
[‡] CSIRO testing, max fire load = 200kN/m @ F-I = 3000mm
[~] Based on F-I = 2700mm, ecc < 0.05t_w, k = 0.75, H_{wb} = 2025, f_c = 25MPa, FRL 90/90/180
[^] Based on F-I = 2700mm, ecc < 0.05t_w, k = 0.75, H_{wb} = 2025, f_c = 32MPa, FRL 90/90/180
^{^^} Based on F-I = 2700mm, ecc < 0.05t_w, k = 0.75, H_{wb} = 2025, f_c = 32MPa, FRL 120/120/240
^{^^^} Based on F-I = 2700mm, ecc < 0.05t_w, k = 0.75, H_{wb} = 2025, f_c = 32MPa, FRL 180/180/240
[#] Based on F-I = 2700mm, ecc < 0.05t_w, k = 0.75, H_{wb} = 2025, f_c = 40MPa, FRL 180/180/240
[§] 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



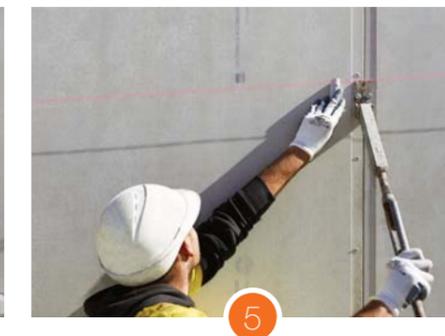
Shop-drawn panels are labelled for easy installation



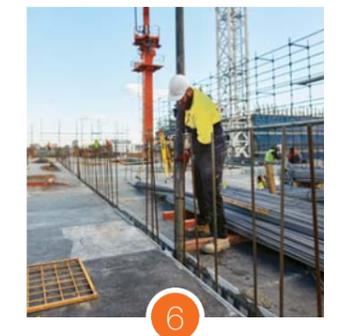
Lightweight panels can be readily positioned without craneage



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.



Load bearing walling solutions for commercial and residential projects

COMPLIANCE & CERTIFICATION

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

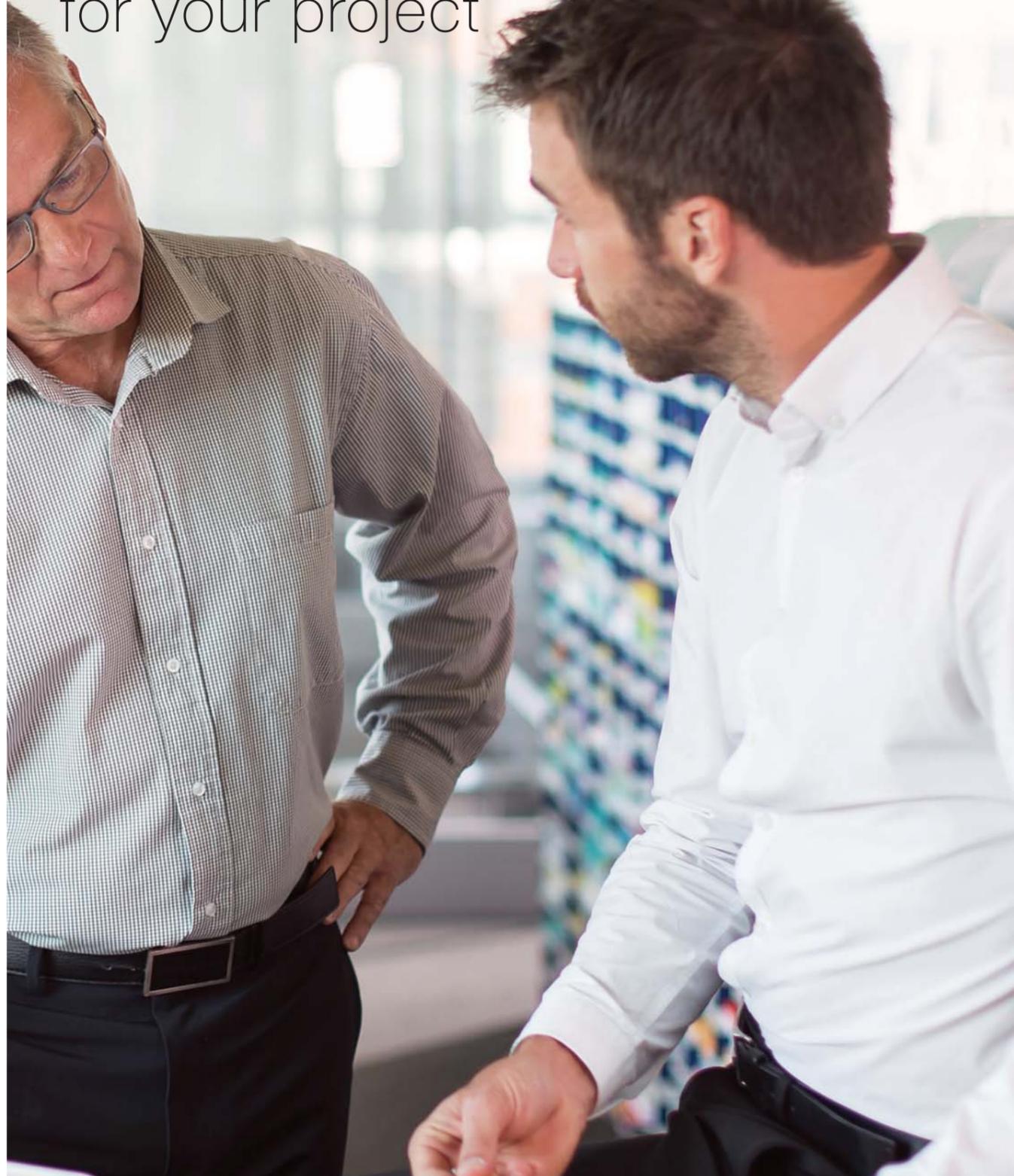
CERTIFICATE OF CONFORMITY
This is to certify that **AFS LOGICWALL®**

Certificate of Test
No. 2347

Acoustic Performance Assessment Of a Product or System
Company Description: AFS Systems Pty Ltd, 2/34-38 Anzac Ave, Smeaton Grange
Product: AFS Logic Wall covering range of AFS120 to AFS362D providing ISO or ASTM Evaluation of various configurations from the base walls of using plasterboard on one or both sides
Assessment Number: PKA-A144
Project Number: 215 020

The Australian construction industry's regulatory bodies maintain some of the world's most stringent standards. Logicwall® is CodeMark Certified and compliant with AS3600-2009, along with meeting regulatory fire resistance, acoustic and thermal insulation demands.

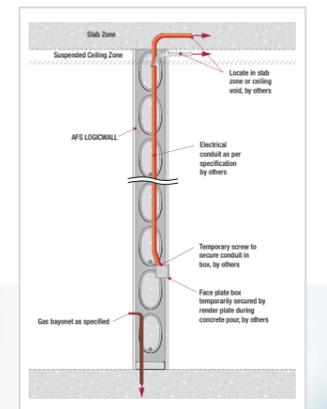
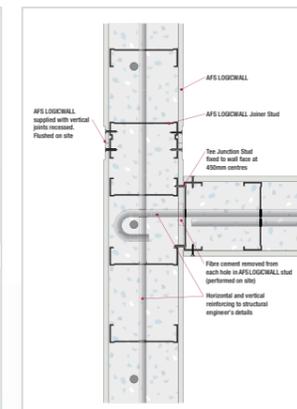
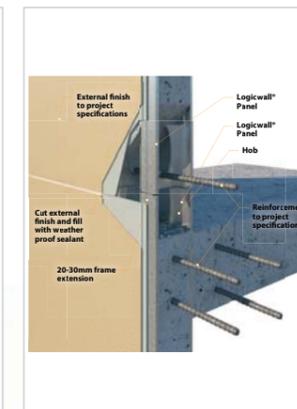
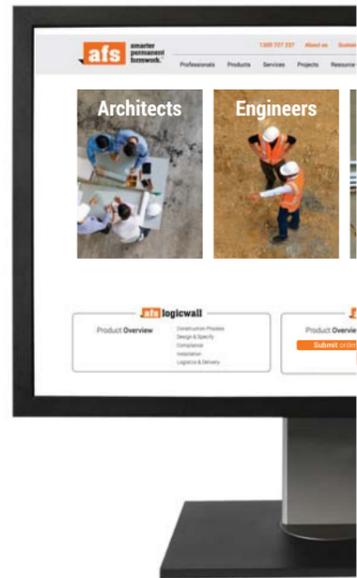
Our in-house expert team of engineers can help with advice for your project



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.



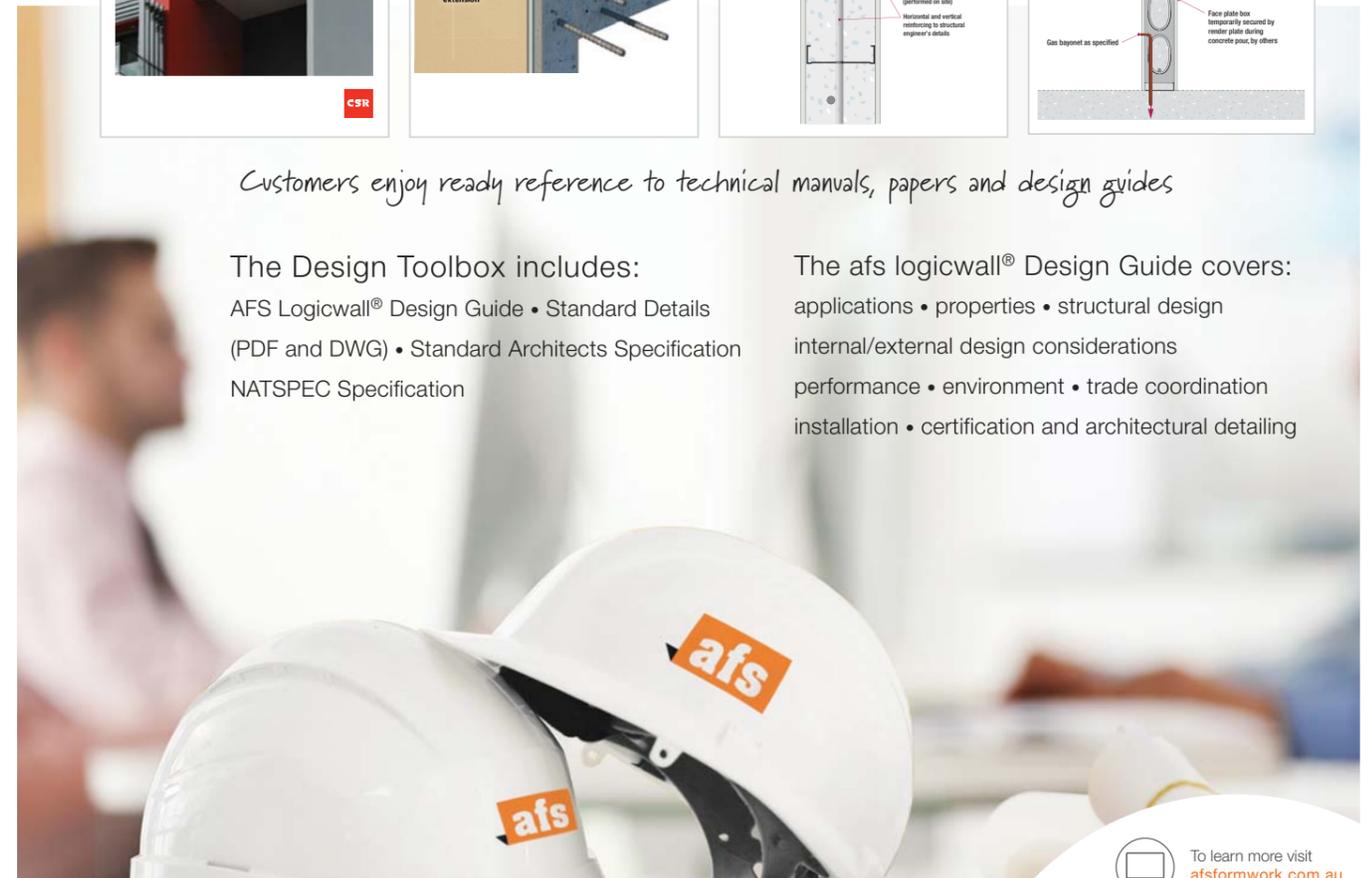
Customers enjoy ready reference to technical manuals, papers and design guides

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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