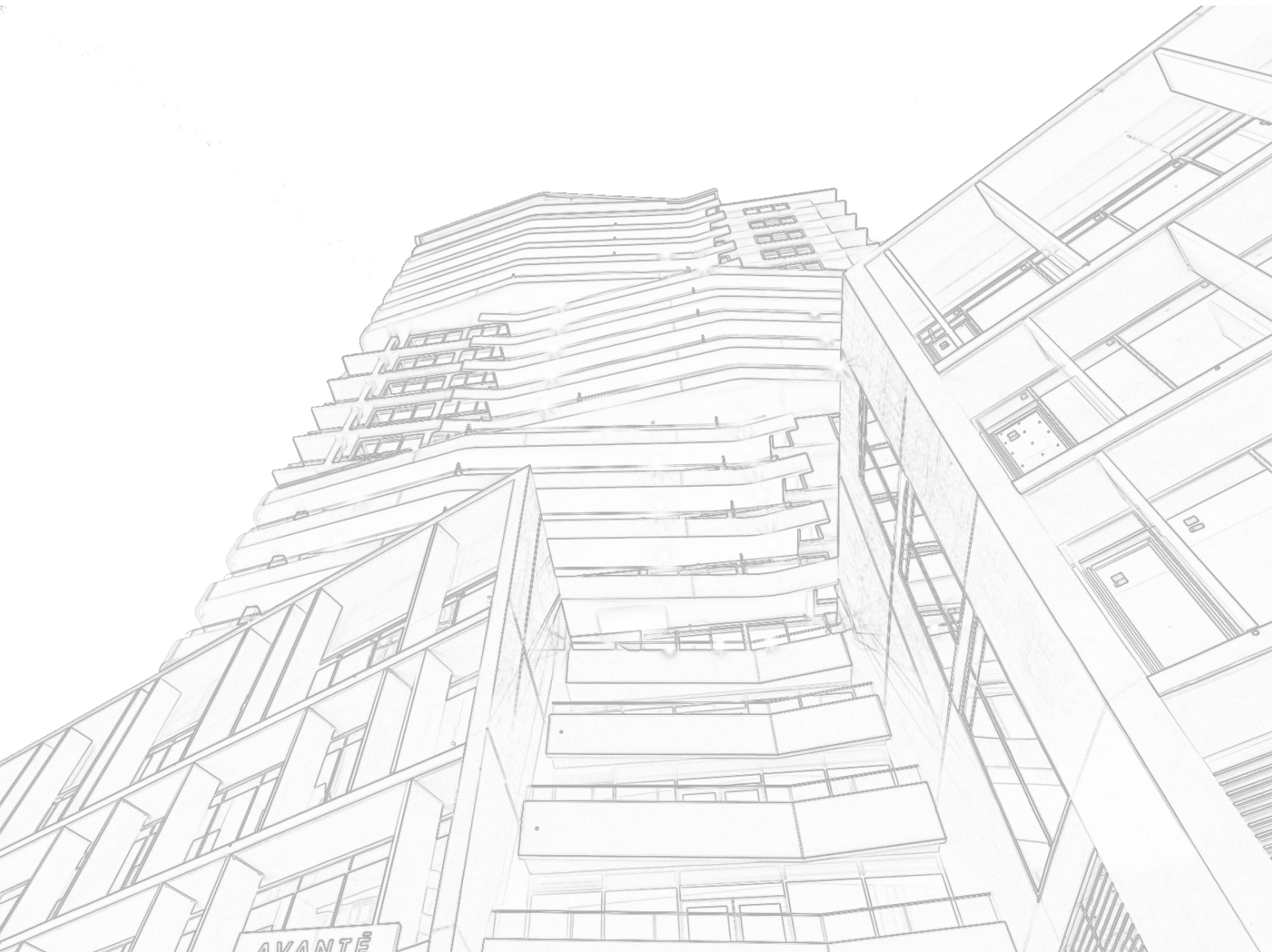




Better Wall & Flooring Solutions

APRIL 2025



walsc.com.au

Contents

01	INTRODUCTION	03
02	EXTERNAL WALL CLADDING SYSTEMS 50	04
03	EXTERNAL WALL CLADDING SYSTEMS 75	05
04	INTER-TENANCY WALL SYSTEMS 50	06
05	INTER-TENANCY WALL SYSTEMS 75	08
06	AAC FLOORING SYSTEMS	10
07	INTERNAL WALL SYSTEMS	12
08	FACADE WALL SYSTEMS	16

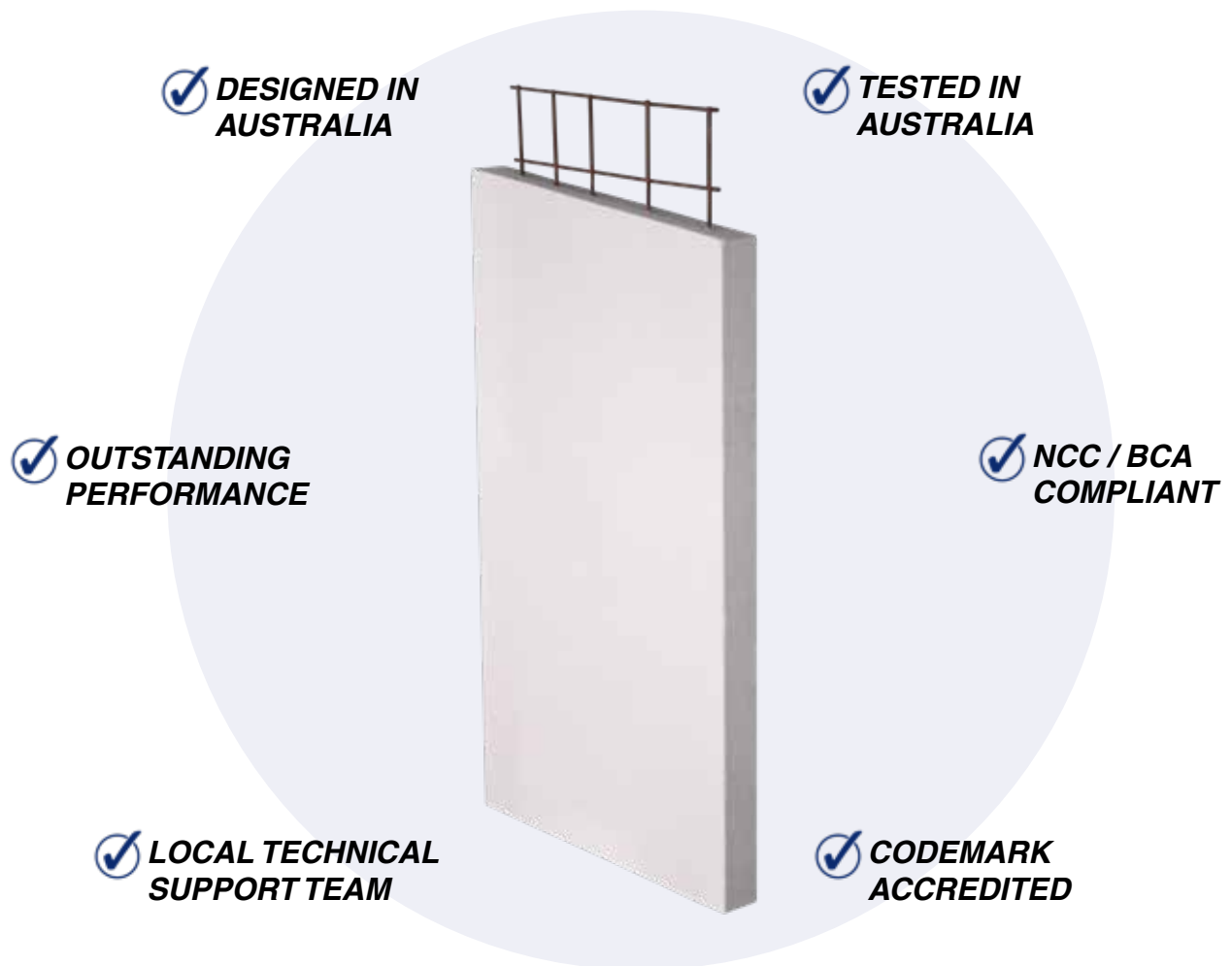
Front cover image courtesy of the Property Owners

Warranty

Walsc guarantees its AAC products to be free of defect in material and manufacture. Walsc AAC Panel Systems are customised to gain the most satisfaction and guaranteed to offer excellent performance when installed and maintained in line with the latest Design and Installation Guide. Minimum of 15 Years warranty of reinforced Walsc AAC Panel within Walsc AAC Panel Systems from date of purchase are provided to our clients. Further information please call us or visit www.walsc.com.au

Walsc is a registered trademark of Sipo Building Solutions Pty Ltd. ABN: 46 614 424 225

The Reinforced Walsc AAC Panel is the soul of all our Walsc AAC Panel Systems.





Reinforced. Tested. Accredited.



Walsc AAC Panel Systems are tested and assessed for compliance with the requirements of the NCC/ Building Codes of Australia. We also continue to invest in system development and conduct necessary testings and assessments to deliver more quality assurance, in respect of fire resistance, non-combustibility, acoustic reduction, thermal insulation, weatherproofing, structural etc.

Note: Walsc AAC wall panel has been accredited CodeMark Certification (CM40331, CM40332) via CertMark in Australia.

Our Benefits



Fire Resistance



Acoustic Insulation



Thermal Insulation



Compliance Assured



Strong & Durable



Eco-friendly



Fast Construction



Technical Support

The design versatility and flexibility of the panel and systems provide better wall and flooring solutions for home owners, developers, architects and all building consultants. Building a high quality energy efficient dream home is no longer a dream of the minority.



Residential Building Applications

External Wall Cladding System 50

External Wall Cladding System 75 Light

Inter-tenancy Wall System 50

Inter-tenancy Wall System 75 Light

AAC Flooring System 75

Apartment & Commercial Building Applications

Internal Wall Systems

Façade Wall System



Walsc External Wall Cladding System 50 consists of 50mm reinforced Walsc AAC Panels fixed to the structural frame of a building with battens in between to form a cavity system.

The orientation of the installed panels are either vertically aligned or horizontally staggered, which provides flexibility to builders and installers to suit their design and allow faster in installation.

The system provides a FRL 120/120/120 fire resistance, and up to 3 times better in thermal insulation than bricks.

External Wall Cladding System 50

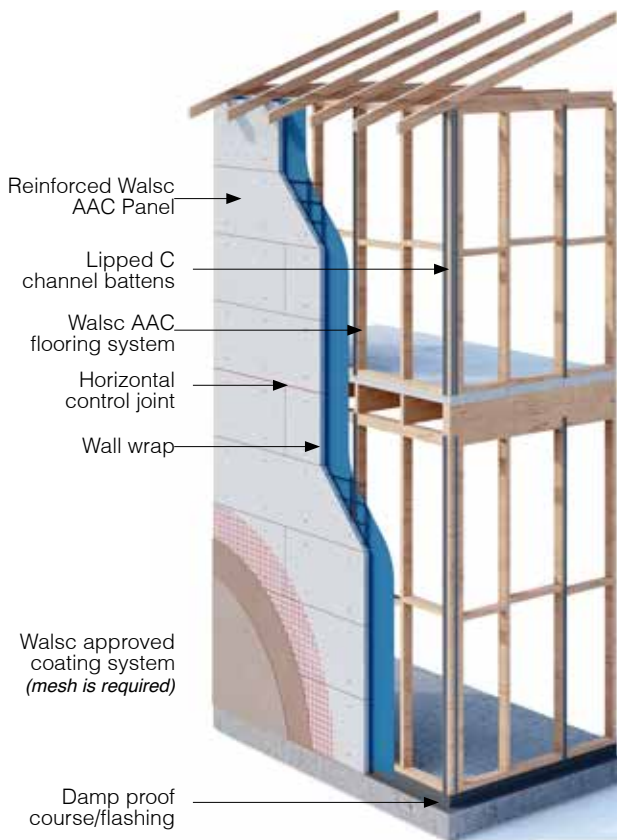
For
Multi-Residential
Buildings

External Wall Cladding System 75^{Light}

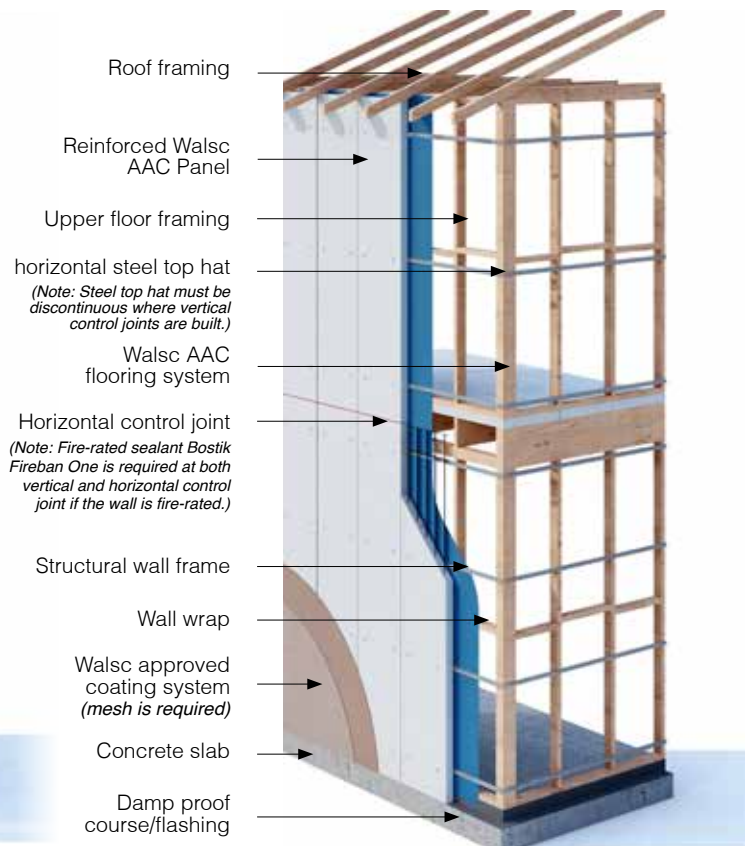
For Multi-Residential Buildings

The Walsc External Wall Cladding System consists of reinforced Walsc AAC Panel 75mm Light installed vertically as shown onto continuous horizontal steel top hats which fixed to the structural frame. The system provides a FRL 240/240/180 fire resistance, and up to 4 times better in thermal insulation than bricks.

Horizontally Staggered System Overview 50



Vertically Aligned System Overview 50/75 Light



Inter-tenancy Wall System 50

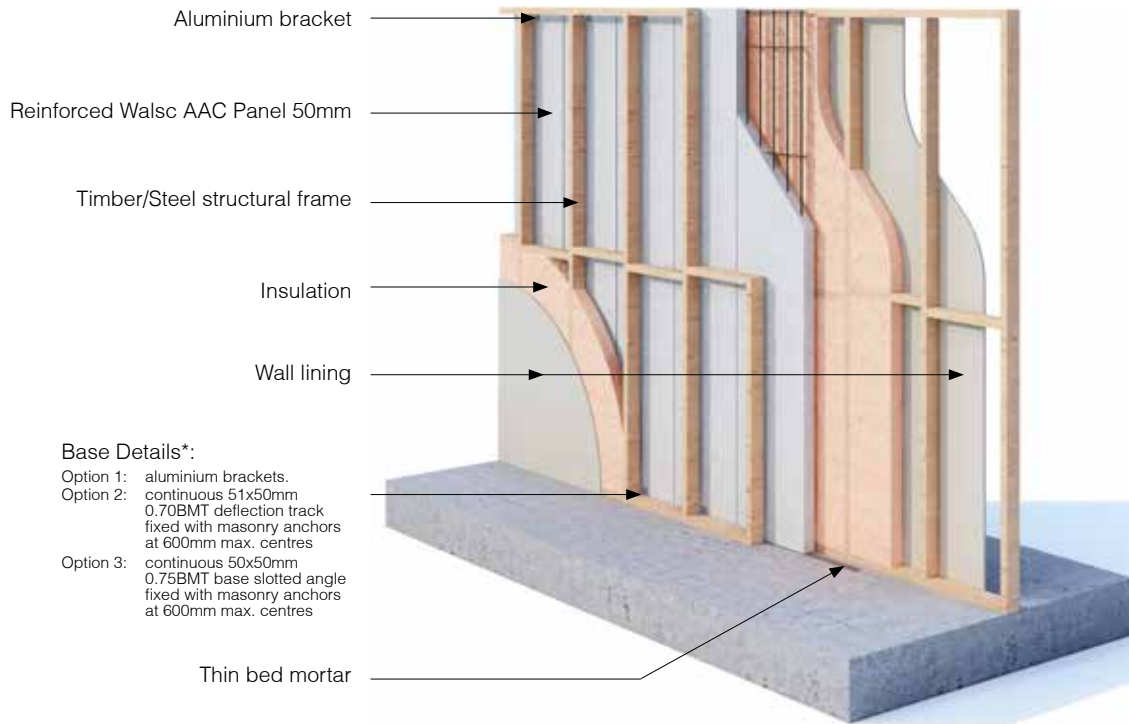
For
Multi-Residential
Buildings

Walsc Inter-tenancy Wall System 50 consists of a single leaf of 50mm reinforced Walsc AAC Panels separated by a cavity and stud frames (with insulation and plasterboard) on each side as an inter-tenancy wall in duplex and townhouse buildings. The single leaf of reinforced Walsc AAC Panels are arranged can be installed either vertically aligned or horizontally aligned.

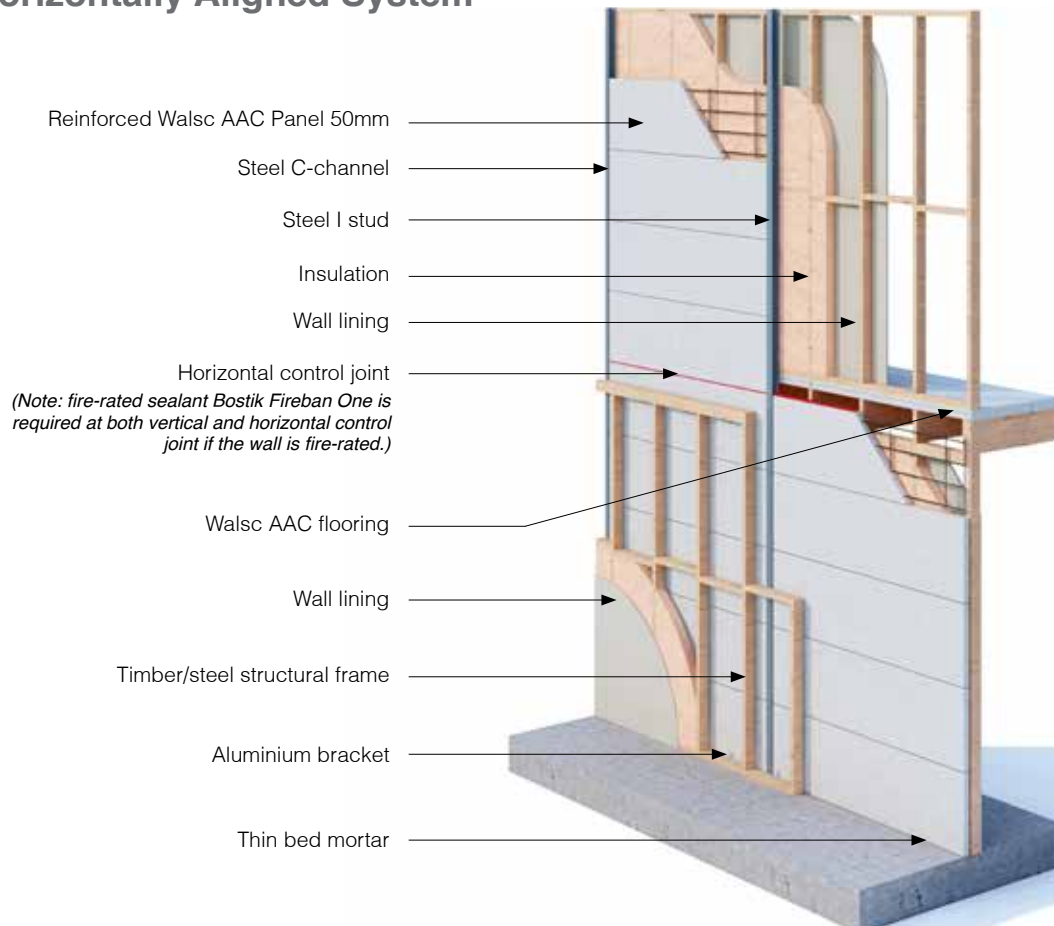
The benefits of this system include:

- Options of continues and discontinues construction
- FRL up to 120/120/120 mins
- Acoustic performance $R_w + C_{tr} \geq 50\text{dB}$
- Solid and secure party wall system
- Reliable and faster construction
- Cost effective than plasterboard shaft wall

Vertically Aligned System



Horizontally Aligned System



Inter-tenancy Wall System

75 Light

For
Multi-Residential
Buildings

Walsc Inter-tenancy Wall System 75 Light is an alternative to our 50mm system. It provides a solid and reliable solution to separate SOUs in duplex and townhouses buildings.



Prospect, SA



Contempo, St Ives NSW



Caringbah South, NSW



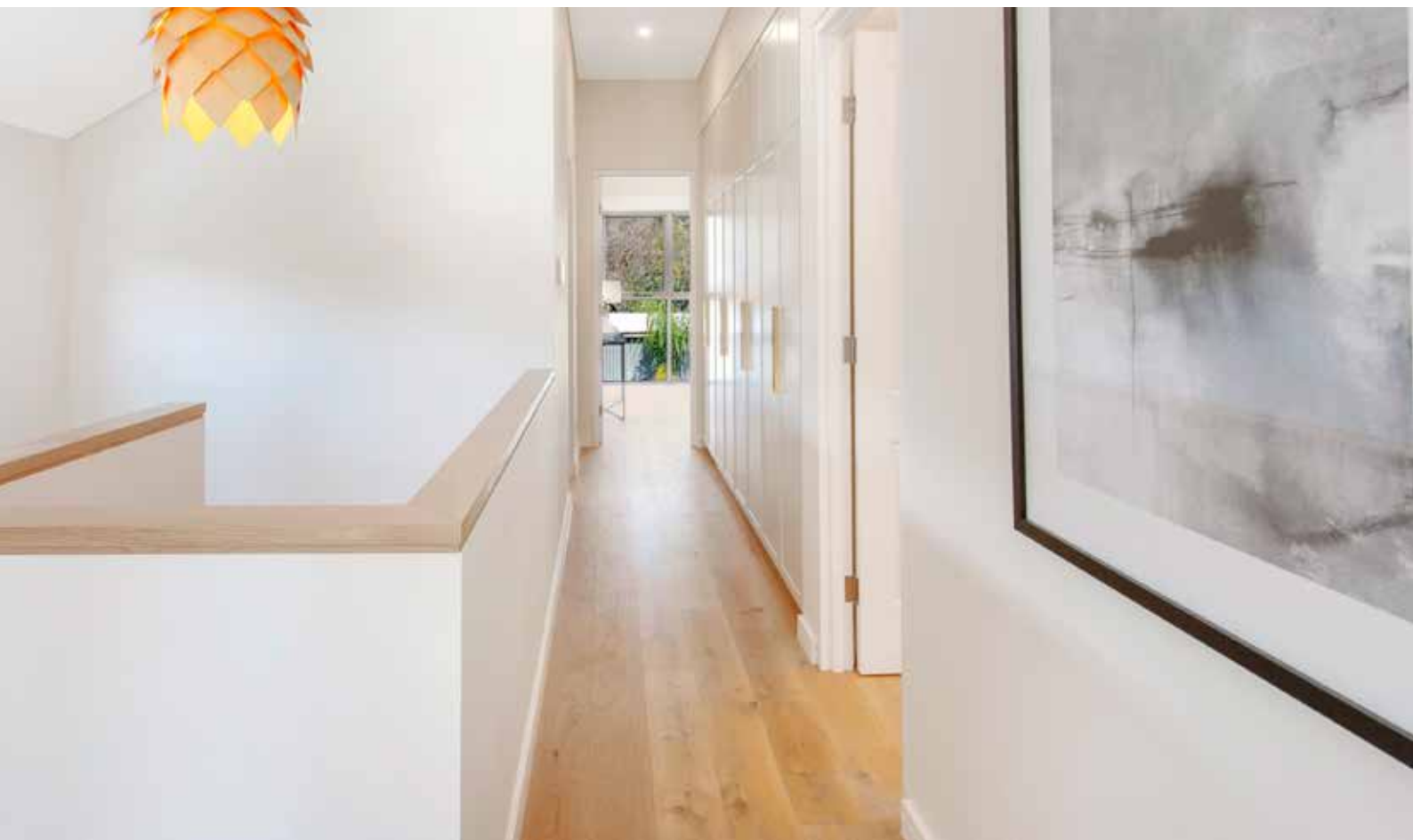
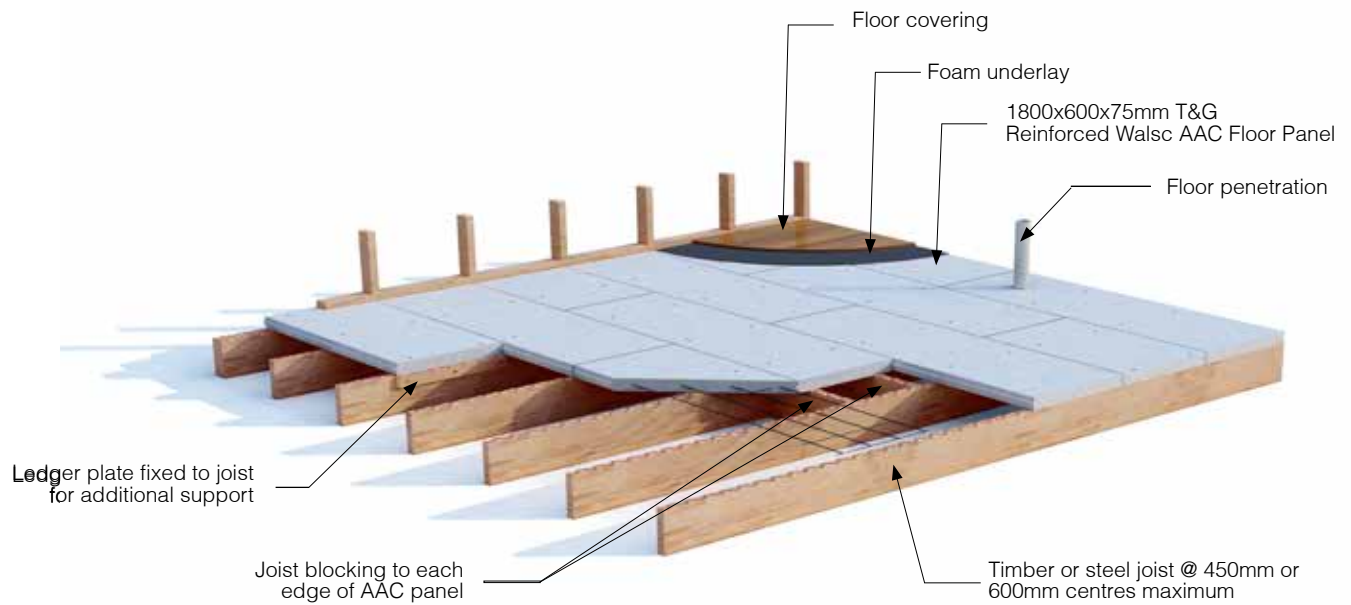
Mount Gilead Estate, NSW

Walsc AAC Flooring System for low-rise residential buildings consists of 1800x600x75mm T&G reinforced Walsc AAC Floor Panels installed onto a timber or steel joist floor frame. Walsc AAC flooring system delivers unparalleled acoustic performance. It is strong & solid which makes it the excellent base for all the common covering including carpet, timber strips, and tiles.

AAC Flooring System

For
Multi-Residential
Buildings

System Overview

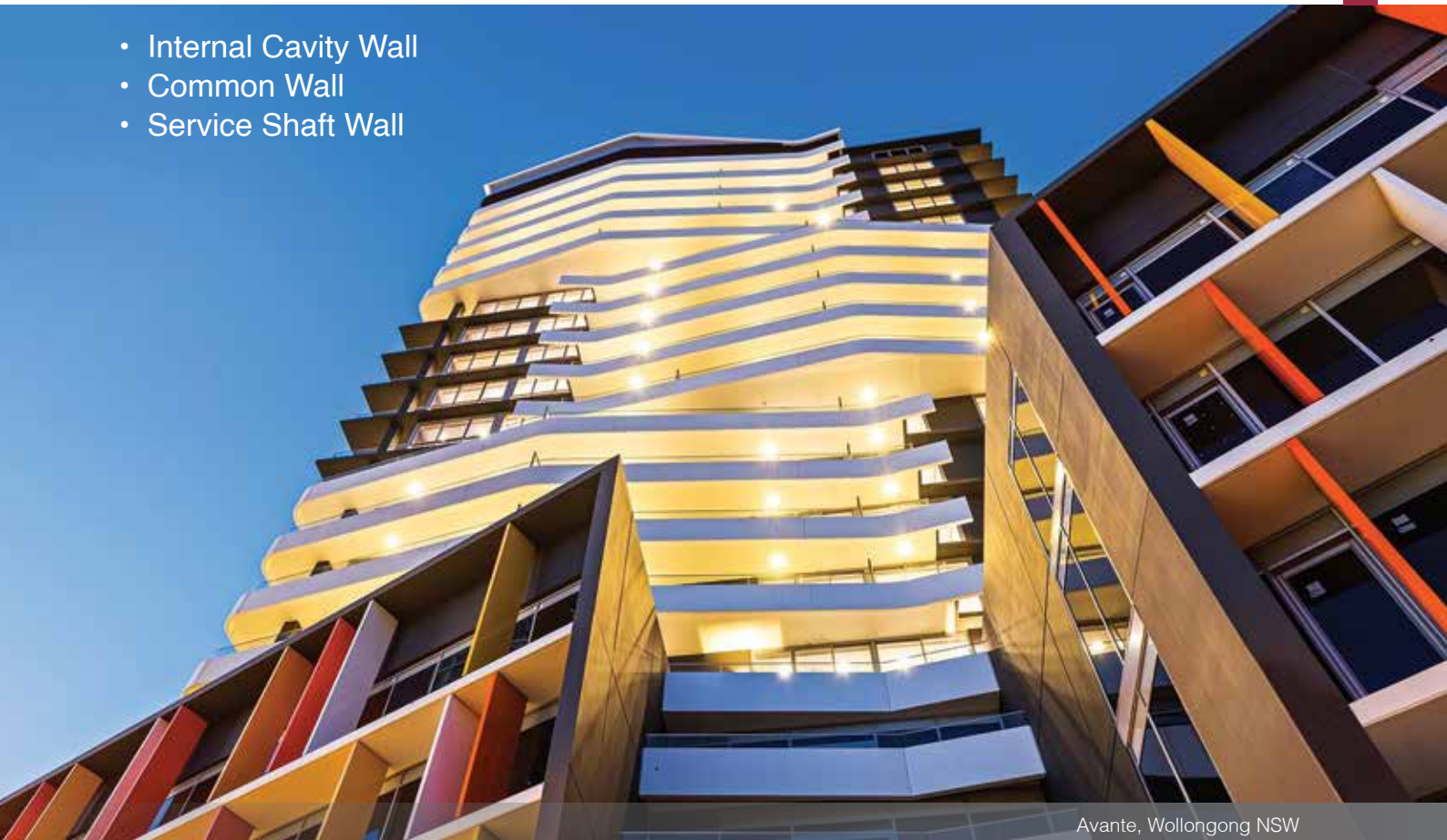


Internal Wall System

For
Apartment &
Commercial
Buildings

Walsc has been working closely with industry partners to create multi-benefits to customers and is committed to delivering the best possible technical solutions throughout the project lifetime. Walsc Service Shaft Wall System without any plasterboard linings is tested and assessed to achieve a FRL -/120/120, when using 75mm Tongue and Groove panels.

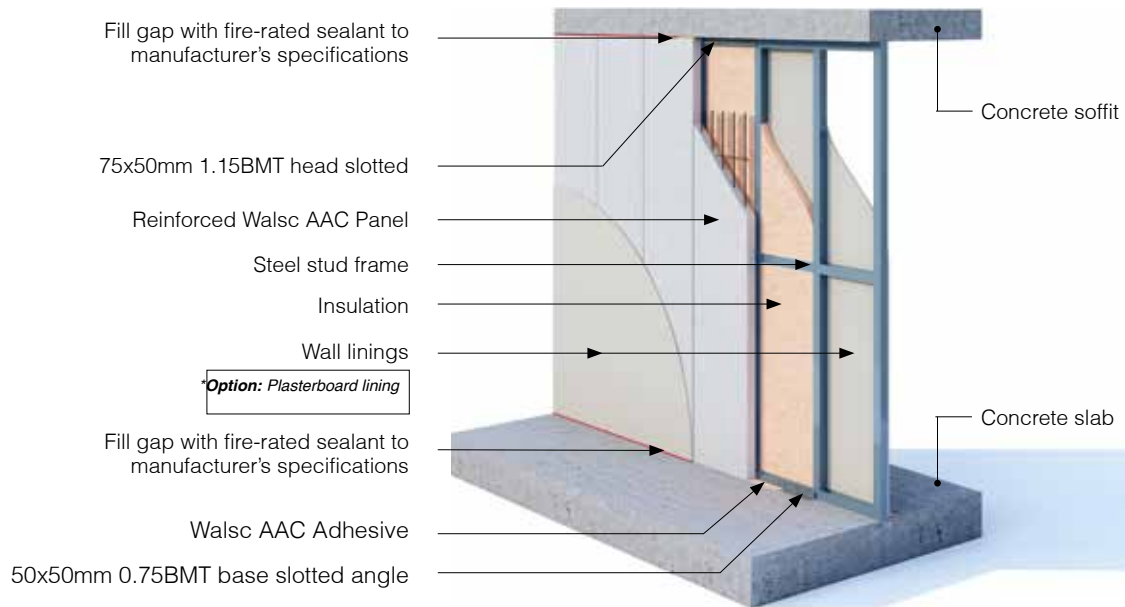
- Internal Cavity Wall
- Common Wall
- Service Shaft Wall



Avante, Wollongong NSW

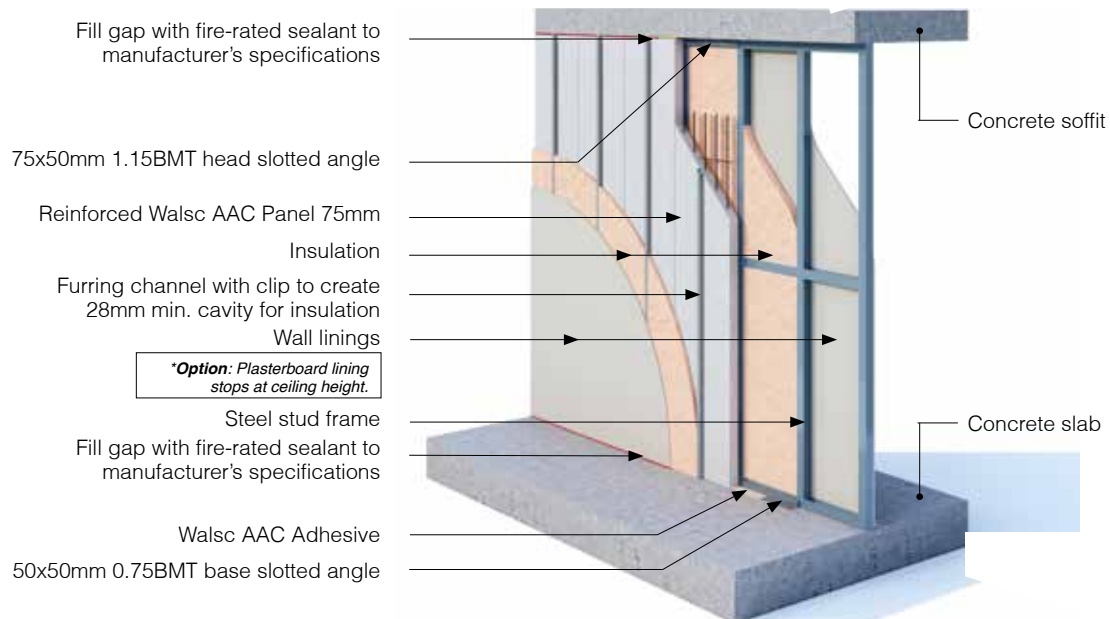
Internal Cavity Wall

Option 1: Reinforced Walsc AAC Panel + Separate Stud



Ref No.	Use	Wall Lining A	AAC Panel	Gap	Steel Studs	Insulation	Wall Lining B	Wall THK.	Rw/Rw+Ctr	FRL
WIW 10	Dry / Dry	13mm Standard Plasterboard	Reinforced Walsc AAC Panel 75mm Square Edge	20mm Cavity for Discontinuous Construction	64mm x 0.50BMT	75mm Glasswool	13mm Standard Plasterboard	185mm	58 / 51	- /90/90
WIW 11	Dry / Dry	13mm Standard Plasterboard	Reinforced Walsc AAC Panel 75mm Tongue and Groove			75mm Glasswool	13mm Standard Plasterboard	185mm	58 / 51	- /120/120
WIW 12	Dry / Wet	13mm Standard Plasterboard				75mm Glasswool	13mm Moisture Resistant Plasterboard	185mm	60 / 53	- /120/120

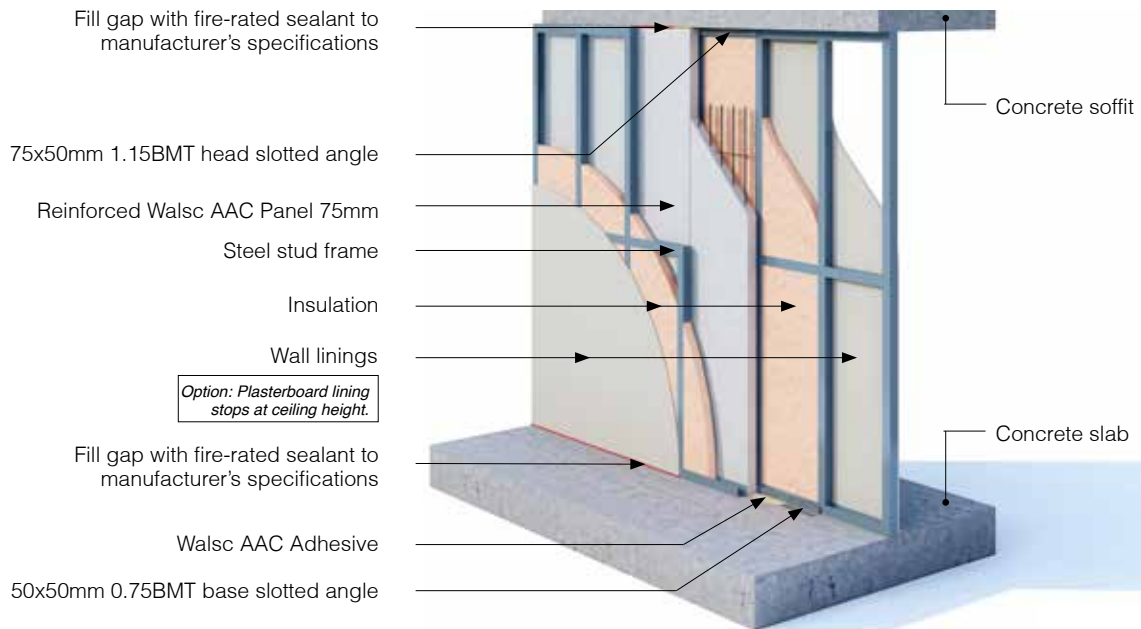
Option 2: Separate Stud + Reinforced Walsc AAC Panel + Furring Channel



Ref No.	Use	Wall Lining A	Steel Studs	Insulation	Gap	AAC Panel	Steel Studs	Insulation	Wall Lining B	Wall THK.	Rw/Rw+Ctr	FRL
WIW 20	Dry / Dry	13mm Standard Plasterboard	64mm x 0.50BMT	75mm Glasswool	0mm Cavity for Discontinuous Construction	Reinforced Walec AAC Panel 75mm tongue and Groove	Min. 28mm Furring Channel + Clip	50mm Glasswool	13mm Standard Plasterboard	213mm min.	64 / 50	- /120/120
WIW 21	Dry / Wet	13mm Standard Plasterboard		75mm Glasswool				50mm Glasswool	13mm Moisture Resistant Plasterboard	213mm min.	65 / 52	- /120/120
WIW 22	Wet / Wet	13mm Moisture Resistant Plasterboard		75mm Glasswool				50mm Glasswool	13mm Moisture Resistant Plasterboard	213mm min.	66 / 54	- /120/120

System Overview

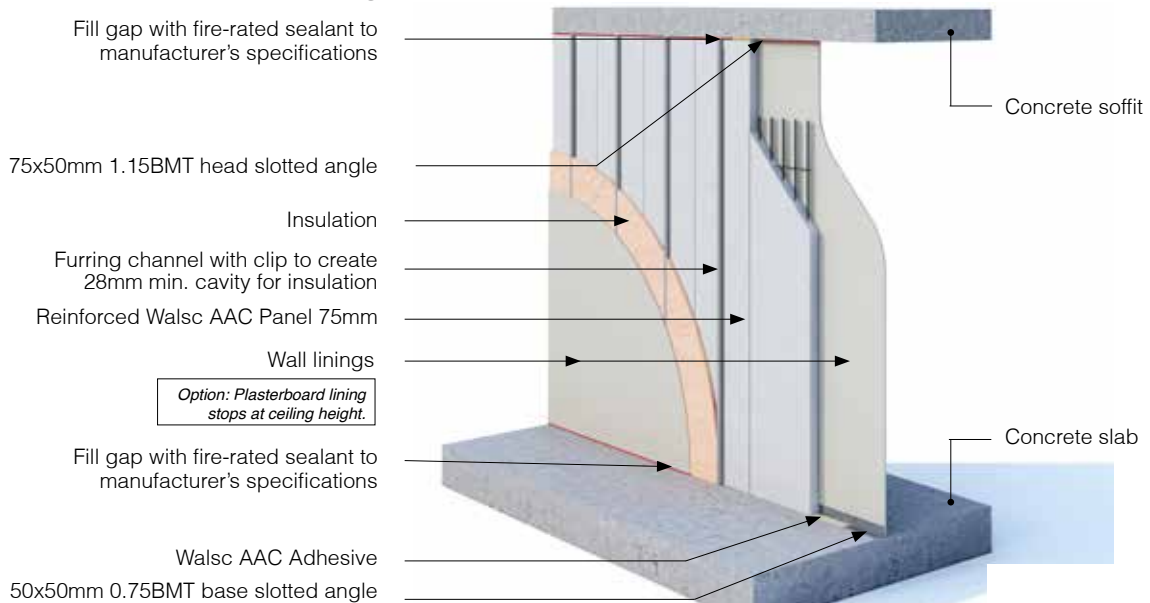
Option 3: Separate Stud + Reinforced Walsc AAC Panel + Separate Stud



Ref No.	Use	Wall Lining A	Steel Studs	Insulation	Gap	AAC Panel	Gap	Steel Studs	Insulation	Wall Lining B	Wall THK.	Rw/Rw+Ctr	FRL
WIW 30	Dry / Dry	13mm Standard Plasterboard	64mm x 0.50BMT	50mm Glasswool	20mm Cavity for Discontinuous Construction	Reinforced Walsc AAC Panel 75mm Tongue and Groove	20mm Cavity for Discontinuous Construction	64mm x 0.50BMT	50mm Glasswool	13mm Standard Plasterboard	269mm	62 / 50	- /120/120
WIW 31	Dry / Wet	13mm Standard Plasterboard		75mm Glasswool					75mm Glasswool	13mm Moisture Resistant Plasterboard	269mm	65 / 53	- /120/120
WIW 32	Wet / Wet	13mm Moisture Resistant Plasterboard		75mm Glasswool					75mm Glasswool	13mm Moisture Resistant Plasterboard	269mm	66 / 54	- /120/120

Common Wall

Reinforced Walsc AAC Panel + Furring Channel

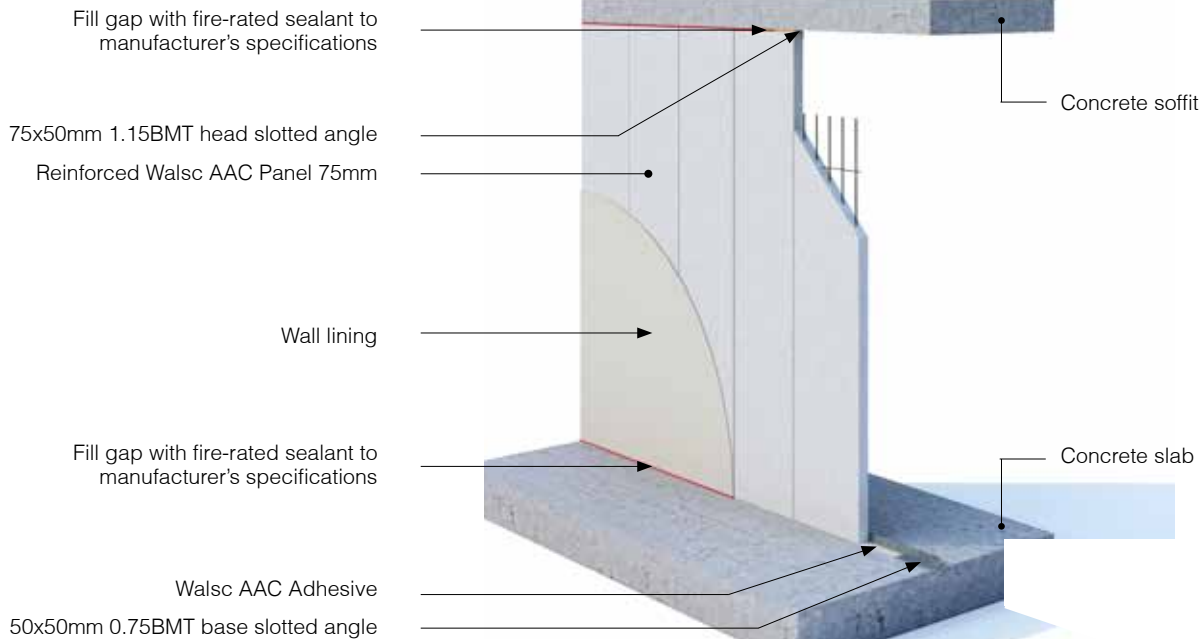


Ref No.	Use	Wall Lining A	AAC Panel	Steel Studs	Insulation	Wall Lining B	Wall THK.	Rw/Rw+Ctr	FRL
WCW 10	Dry / Dry	13mm Standard Plasterboard	Reinforced Walsc AAC Panel 75mm Square Edge	Min. 28mm Furring Channel + Clip	50mm Glasswool	13mm Standard Plasterboard	129mm min.	52 / 42	- /90/90
WCW 11	Dry / Dry	13mm Standard Plasterboard	Reinforced Walsc AAC Panel 75mm Tongue and Groove		50mm Glasswool	13mm Standard Plasterboard	129mm min.	52 / 42	- /120/120
WCW 12	Dry / Wet	13mm Standard Plasterboard			50mm Glasswool	13mm Moisture Resistant Plasterboard	129mm min.	53 / 43	- /120/120

System Overview

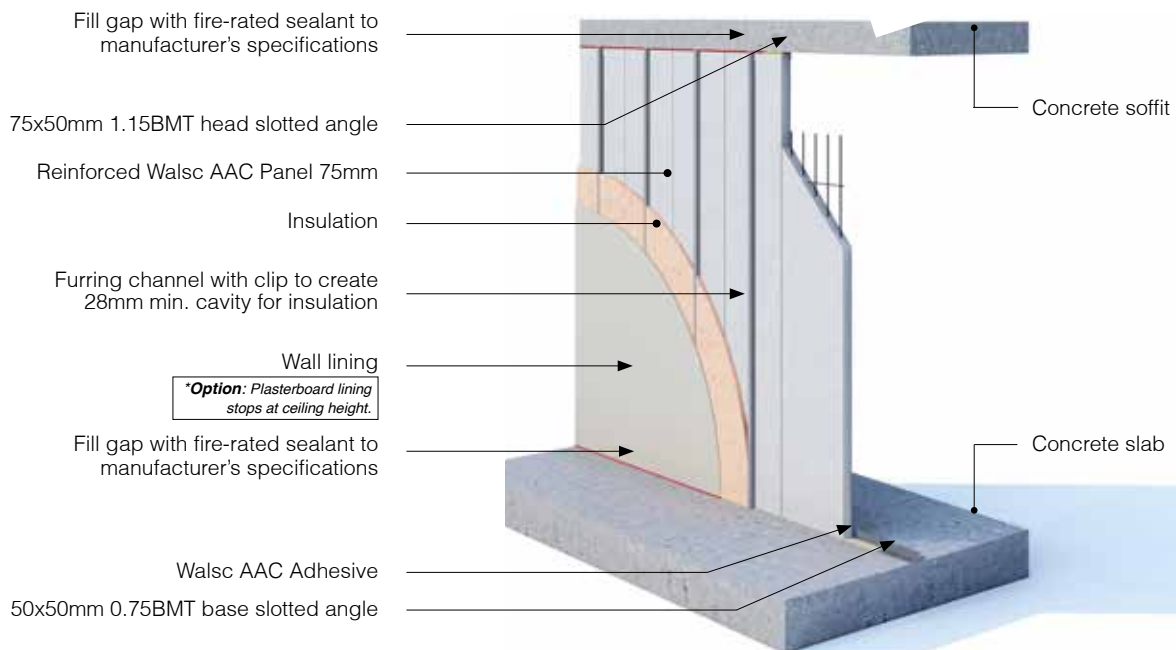
Service Shaft Wall

Option 1: Reinforced Walsc AAC Panel



Ref No.	Use	Wall Lining A	Steel Studs	Insulation	Gap	AAC Panel	Gap	Steel Studs	Insulation	Wall Lining B	Wall THK.	Rw/Rw+Ctr	FRL
WIW 30	Dry / Dry	13mm Standard Plasterboard	64mm x 0.50BMT	50mm Glasswool	20mm Cavity for Discontinuous Construction	Reinforced Walsc AAC Panel 75mm Tongue and Groove	20mm Cavity for Discontinuous Construction	64mm x 0.50BMT	50mm Glasswool	13mm Standard Plasterboard	269mm	62 / 50	- /120/120
WIW 31	Dry / Wet	13mm Standard Plasterboard		75mm Glasswool					75mm Glasswool	13mm Moisture Resistant Plasterboard	269mm	65 / 53	- /120/120
WIW 32	Wet / Wet	13mm Moisture Resistant Plasterboard		75mm Glasswool					75mm Glasswool	13mm Moisture Resistant Plasterboard	269mm	66 / 54	- /120/120

Option 2: Reinforced Walsc AAC Panel + Furring Channel



Ref No.	Use	Wall Lining A	AAC Panel	Steel Studs	Insulation	Wall Lining B	Wall THK.	Rw/Rw+Ctr	FRL
WCW 10	Dry / Dry	13mm Standard Plasterboard	Reinforced Walsc AAC Panel 75mm Square Edge	Min. 28mm Furring Channel + Clip	50mm Glasswool	13mm Standard Plasterboard	129mm min.	52 / 42	- /90/90
WCW 11	Dry / Dry	13mm Standard Plasterboard			50mm Glasswool	13mm Standard Plasterboard	129mm min.	52 / 42	- /120/120
WCW 12	Dry / Wet	13mm Standard Plasterboard	Reinforced Walsc AAC Panel 75mm Tongue and Groove		50mm Glasswool	13mm Moisture Resistant Plasterboard	129mm min.	53 / 43	- /120/120

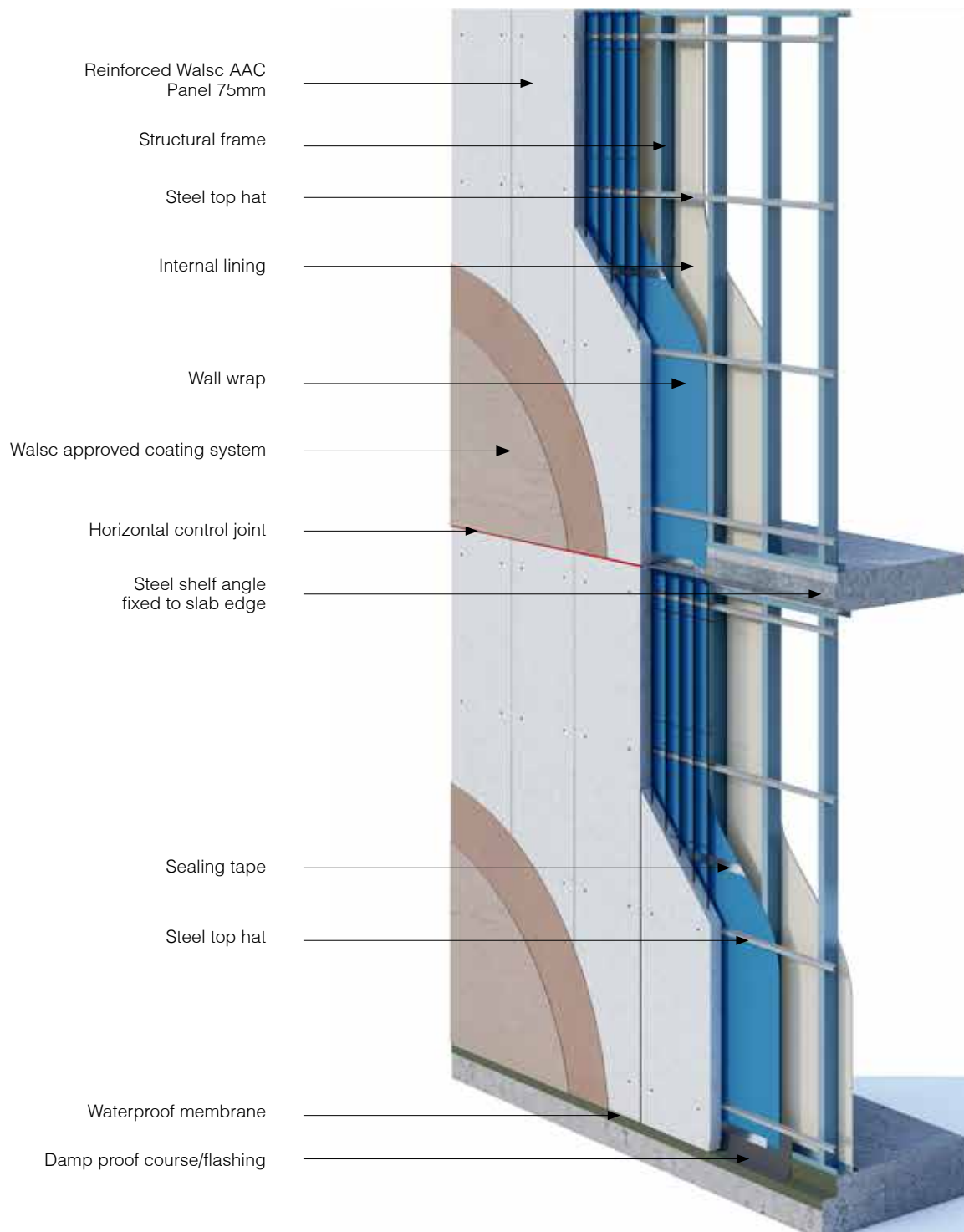


East Pearl, Eastwood NSW

External walls of apartment and commercial buildings are required in certain circumstances to achieve a certain level of fire resistance as per Section C of NCC Volume 1. Walsc Facade Wall Systems have been tested and assessed with a FRL of -/180/180 on the rebated slab edge detail and -/120/120 on the unexposed slab edge detail.

Facade Wall System

For
Apartment &
Commercial
Buildings



Note:
Walsc Facade Wall Systems have been assessed to comply with Part C1.9 of the 2019 NCC Volume 1. The assessment report is available upon request.



Yves Gardens, St Ives NSW



One Eastside, Penrith NSW



Edge 28, St Leonards NSW





Latitude, Liverpool NSW



One14 Tudor, Newcastle



St Charbel's Care Centre, Punchbowl NSW








Omega Apartments, Kingswood NSW



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Residential Building Applications

-  External Wall Cladding System 50
-  External Wall Cladding System 75 Light
-  Inter-tenancy Wall System 50
-  Inter-tenancy Wall System 75 Light
-  AAC Flooring System 75

Apartment & Commercial Building Applications

-  Internal Wall Systems
-  Façade Wall System

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Disclaimer

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