



AAC PANELS INTRODUCTION



What is Autoclaved Aerated Concrete?

AAC is a non-toxic, lightweight concrete that is produced by mixing cement, finely ground quartz sand, water, limestone, and aluminium paste.

AAC is non-combustible, provides excellent acoustic insulation, has high thermal resistance, is easily worked with standard masonry tools, and has a solid masonry feel. That means it is very firm, earthquake damage-resistant because of its lightweight structure, and non-flammable (Fire Class A1).

AAC has been used all over the world for nearly a century, having been introduced commercially in Sweden in 1923. This fantastic material is easily created without harm to the environment; even the steam generated during manufacturing is recycled.



Sand



Cement



Lime



Water



AAC is widely used in residential, industrial, commercial, social, and public construction projects in both concrete and steel structures.

AAC building products can be used for all applications, including every type of masonry walls, roofs, and floors.



AAC is a preferred choice in many developed countries, including all EU countries, USA, Japan, Russia, Australia, all Gulf countries, Saudi Arabia, and most developing countries.

Using AAC in your construction projects is a smart choice because it saves you money in transportation, workmanship, and in use of steel and cement.

Main Advantages of AAC Concretes

INSULATING



The excellent thermal and noise insulation properties of AAC mean that a pleasant interior environment can be achieved and maintained. This also reduces heating/cooling expenses.

PRECISE



The patented manufacturing process ensures that AAC pieces are always true to size. This results in less onsite trimming and reduces the quantities of mortar and finishing materials required. AAC can be sawn, drilled, nailed, and machined using normal woodworking tools.

FIREPROOF



AAC provides maximum fire safety. It is totally inorganic and incombustible, and can be used for all fire-resistant and vision walls.

LIGHTWEIGHT



AAC is a lightweight product compared to other solid building materials. It weighs about 1/4th of normal concrete block and 1/3rd of clay brick. This lowers injury risks during earthquakes. However, despite millions of tiny air-filled pores, it is still solid. This also reduces transportation costs as well as structural design expenses, where savings in mass and weight make much more affordable structures possible. This means lighter supporting structures and more compact foundations in both residential and commercial construction projects.

ECOLOGICAL

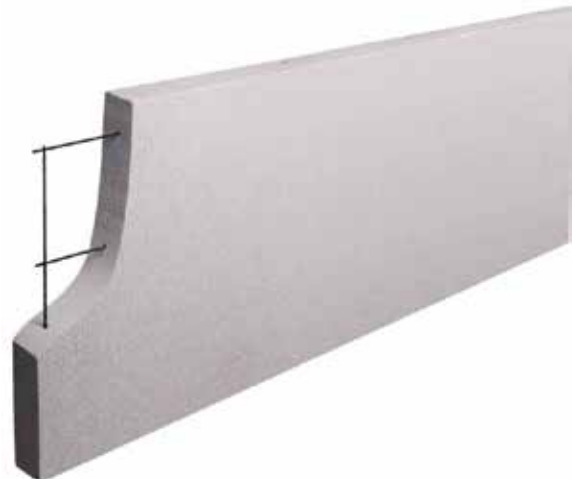


AAC products are produced with minimum energy, without using agricultural soil. They are non-toxic and do not pollute the environment during production or construction stages.

ACOUSTIC



The Contech AAC Panel System provides excellent acoustic insulation properties and is an effective sound transmission barrier to meet or exceed BCA requirements.



CONTECH® PANEL

H50 External Wall System



H50 EXTERNAL WALLS

- ✓ HOUSES
- ✓ LOW RISE MULTI RESIDENTIAL

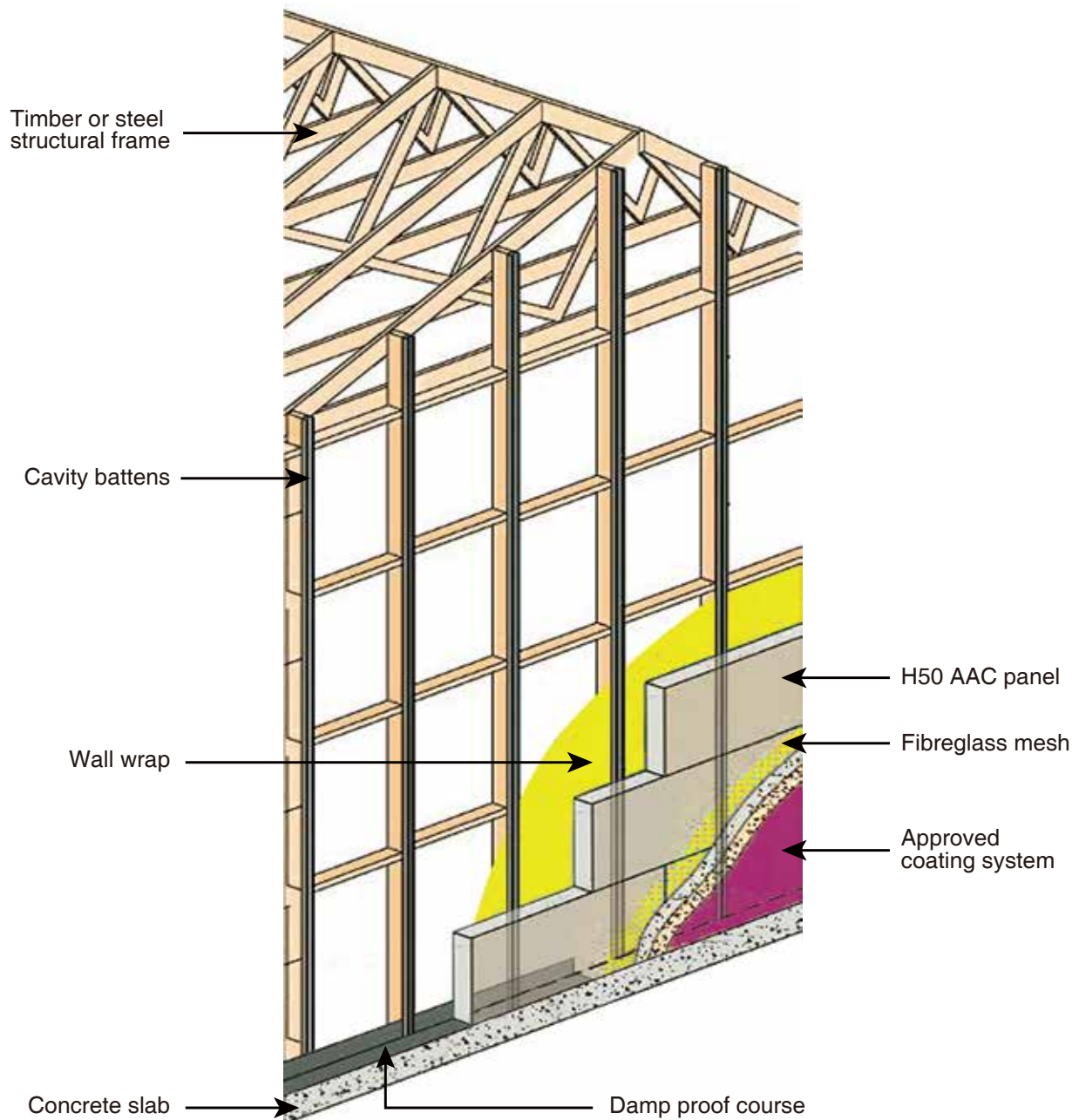
- Strong, solid & light external walls
- Good acoustic performance
- Easy to install
- Good thermal performance
- Non-combustible

Code	Description	Length	Width	Thick	KGS/Sheet	Sheets/Pack	KGS/Pack
AACP502200	CONTECH® AAC WALL PANEL 2200X600X50MM	2200MM	600MM	50MM	51.5	20	1055

CONTECH® PANEL

H50 External Wall System

The PANEL H50 system consists of CONTECH 50mm thick AAC panels, horizontally secured to the structural frame via vertical cavity sections.



H50 Construction Overview

CONTECH® PANEL

H50 Party Wall System



H50 PARTY WALL SYSTEM ✓ LOW RISE MULTI RESIDENTIAL

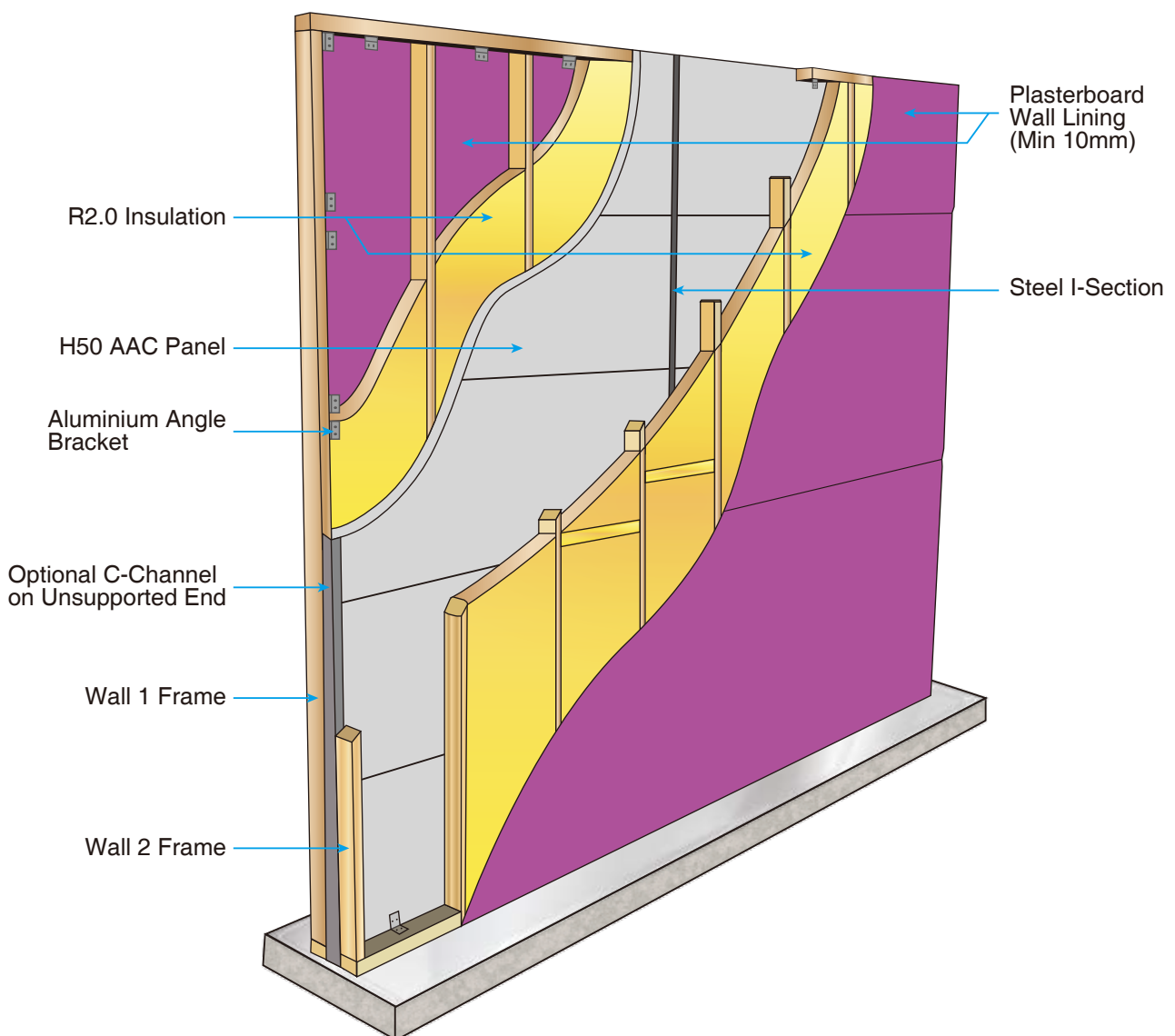
- Fast and easy construction
- Acoustic rating compliance
- Easy to achieve NCC fire rating
- All weather installation

Code	Description	Length	Width	Thick	KGS/Sheet	Sheets/Pack	KGS/Pack
AACP502200	CONTECH® AAC WALL PANEL 2200X600X50MM	2200MM	600MM	50MM	51.5	20	1055

CONTECH® PANEL

H50 Party Wall System

The Party Wall H50 system consists of CONTECH 50mm thick AAC panels, horizontally secured to the structural frame via steel I-sections



H50 Party Wall Construction Overview

CONTECH® PANEL

V75 External Wall System



- Quality, solid & strong wall system
- High acoustic performance
- Fast to construct
- High thermal performance
- Good FR performance

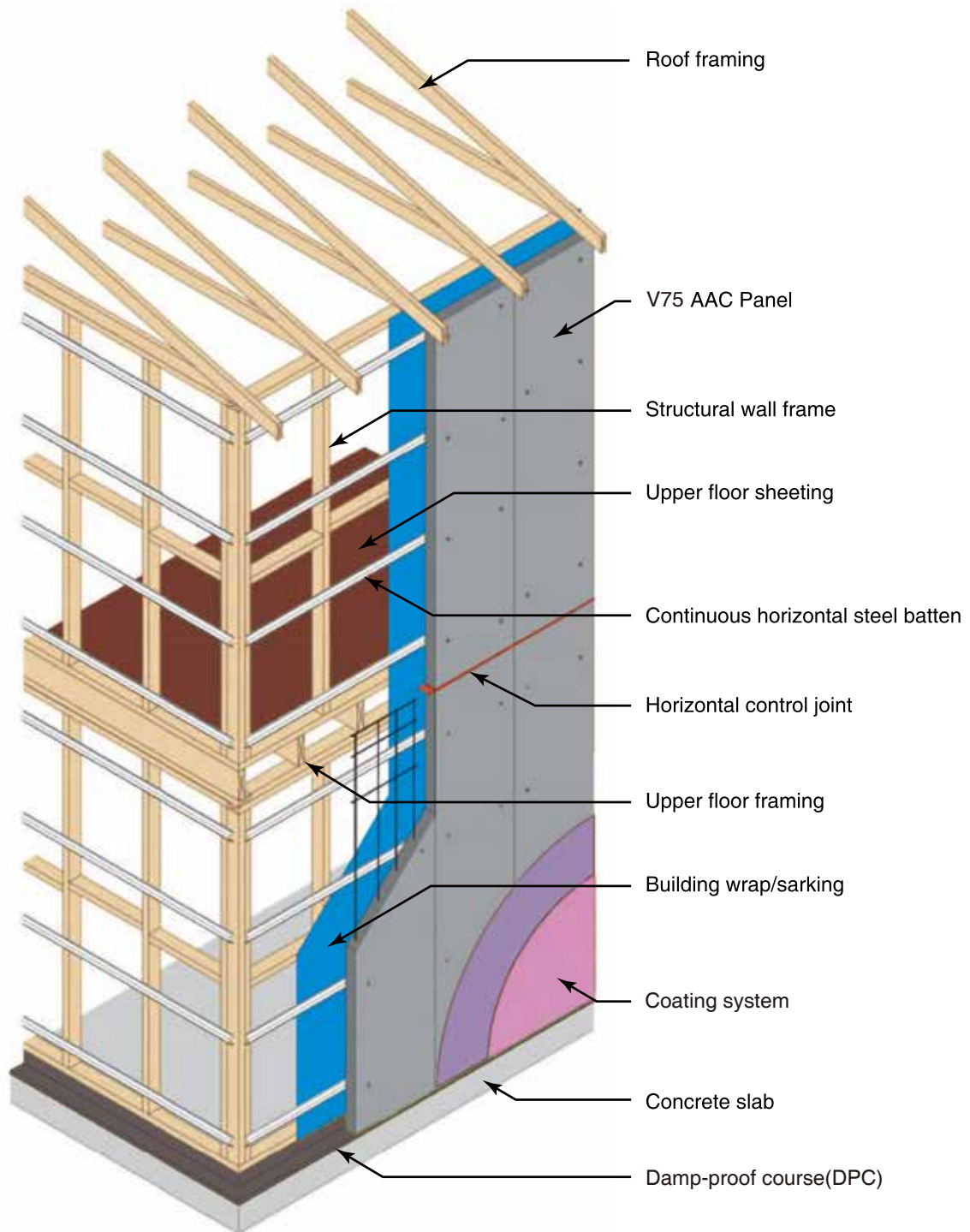
PRODUCT DETAILS

Code	Description	Length	Width	Thick	KGS/Sheet	Sheets/Pack	KGS/Pack
AACP752400	CONTECH® AAC WALL PANNEL 75 X 600 X 2400MM	2400MM	600MM	75MM	84.3	14	1206
AACP752550	CONTECH® AAC WALL PANNEL 75 X 600 X 2550MM	2550MM	600MM	75MM	89.5	14	1281
AACP752700	CONTECH® AAC WALL PANNEL 75 X 600 X 2700MM	2700MM	600MM	75MM	94.8	14	1355
AACP752850	CONTECH® AAC WALL PANNEL 75 X 600 X 2850MM	2850MM	600MM	75MM	100.1	14	1430
AACP753000	CONTECH® AAC WALL PANNEL 75 X 600 X 3000MM	3000MM	600MM	75MM	105.3	14	1505

CONTECH® PANEL

V75 External Wall System

The PANEL V75 system consists of CONTECH® 75mm thick AAC panels vertically secured to the structural frame via horizontal perforated top hat sections. The wall is then rendered with a recommended coating system – providing a faster way of constructing external facades for residential builds.



V75 Construction Overview

CONTECH® PANEL

V75 Party Wall System



V75 PARTY WALL SYSTEM ✓ LOW RISE MULTI RESIDENTIAL

- Fast and easy construction
- Acoustic rating compliance
- Easy to achieve NCC fire rating
- All weather installation

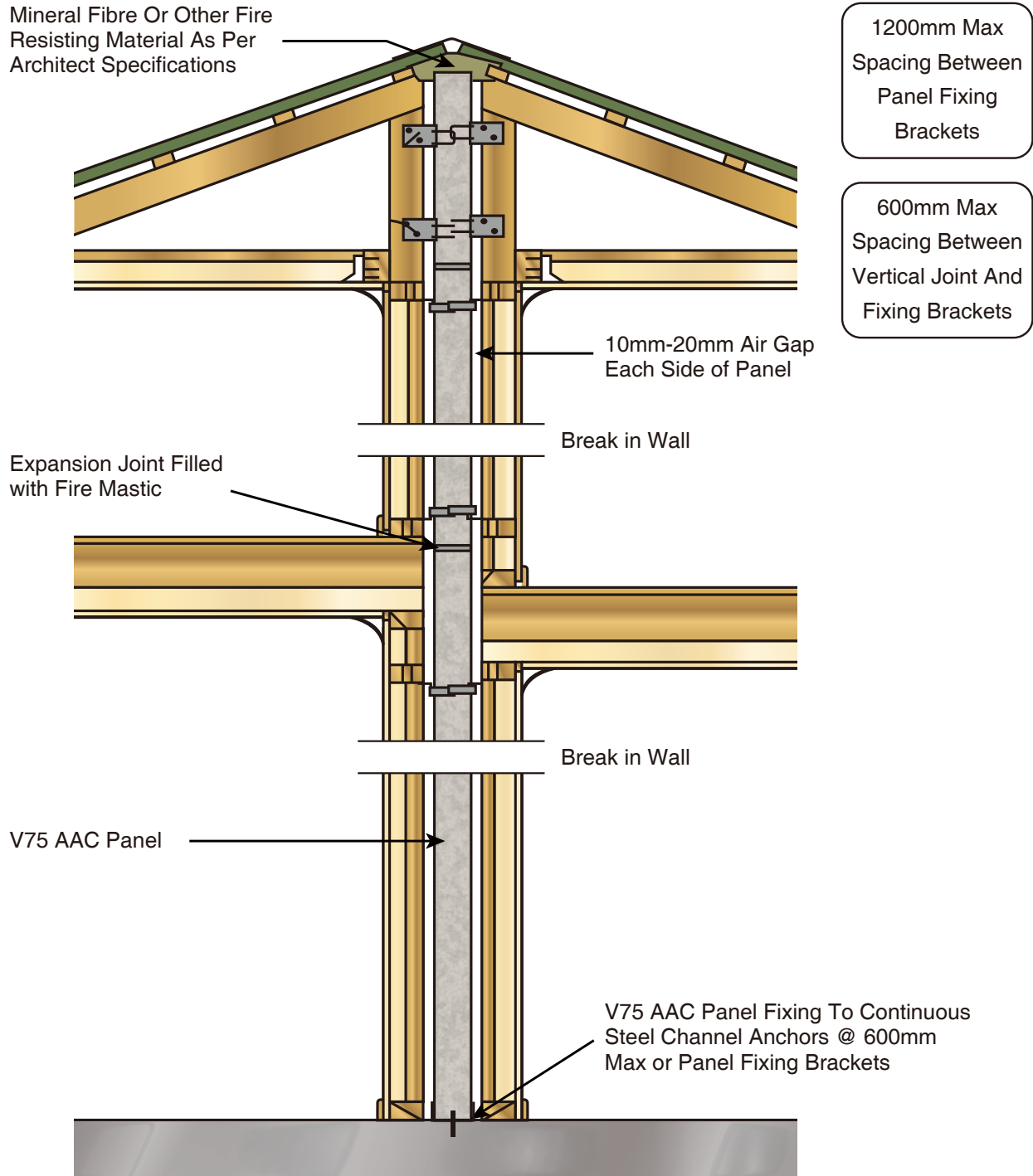
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Code	Description	Length	Width	Thick	KGS/Sheet	Sheets/Pack	KGS/Pack
AACP752400	CONTECH® AAC WALL PANNEL 75 X 600 X 2400MM	2400MM	600MM	75MM	84.3	14	1206
AACP752550	CONTECH® AAC WALL PANNEL 75 X 600 X 2550MM	2550MM	600MM	75MM	89.5	14	1281
AACP752700	CONTECH® AAC WALL PANNEL 75 X 600 X 2700MM	2700MM	600MM	75MM	94.8	14	1355
AACP752850	CONTECH® AAC WALL PANNEL 75 X 600 X 2850MM	2850MM	600MM	75MM	100.1	14	1430
AACP753000	CONTECH® AAC WALL PANNEL 75 X 600 X 3000MM	3000MM	600MM	75MM	105.3	14	1505

CONTECH® PANEL

V75 Party Wall System

Appendix



V75 Party Wall Construction Overview

CONTECH® FLOOR PANEL

F75 Flooring System

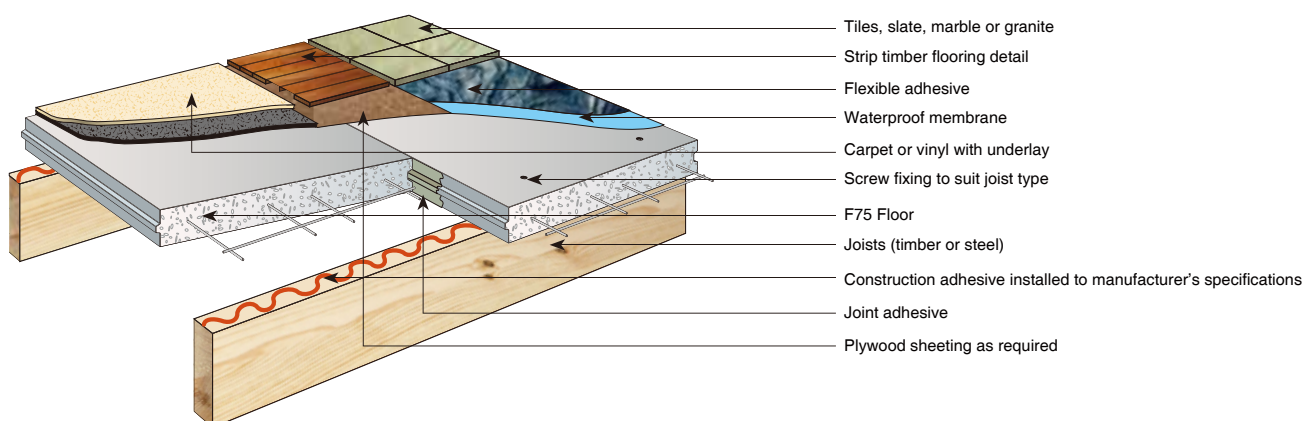
FLOORS

- ✓ HOUSES
- ✓ MULTI-RESIDENTIAL







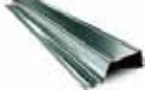


- Excellent acoustic performance
- Solid concrete floor feeling
- Non-combustible
- Easy to install
- All weather installation

Code	Description	Length	Width	Thick	KGS/Sheet	Sheets/Pack	KGS/Pack
AACPF751800	CONTECH®AAC FLOOR PANEL 1800X600X75MM	1800MM	600MM	75MM	72.1	14	1040



F75 Construction Overview

Installation Accessories List

Ref. Pic	Code	Description	Application	Qty/ Unit	Order Unit
	STCBX1235	Screws T17 Hex C3 12-11x35mm	fix the metal battens to timber frames	1000	Box
	STCBX1465	Screw Type 17 Hex C3 14-10 x 65mm	Fix panel to Top hat or Cavity	500	Box
	STCBX1490	Screw Type 17 Hex C3 14-10 x 90mm	Fix panel to Top hat or Cavity	500	Box
	STCBX14150	Screw Type 17 Hex C3 14-10 x150mm	Fix panel to Top hat or Cavity	250	Box
	SMCBX1016100	Screw Teks Hex C3 10-16 x 16mm	fix the metal battens to steel frames	1000	Box
	T17BC1475	Screw Type 17 Bugle Ph C3 14-10 x 75mm	Fix panel to Top hat or Cavity	500	Box
	T17BC14100	Screw Type 17 Bugle Ph C3 14-10 x 100mm	Fix panel to Top hat or Cavity	500	Box
	T17BC14125	Screw Type 17 Bugle Ph C3 14-10 x 125mm	Fix panel to Top hat or Cavity	500	Box
	TH50254855	Top Hat 50mm x 25mm x 4800mm x 0.75mm	Attaching Panel to Framing	1	Length
	TH50504875	Top Hat 50mm x 50mm x 4800mm x 0.75mm	Attaching Panel to Framing	1	Length
	CB254855	Cavity Batten 25mm x 4800mm x 0.55mm	Attaching Panel to Framing	1	Length
	CB354855	Cavity Batten 35mm x 4800mm x 0.55mm	Attaching Panel to Framing	1	Length
	FC1648	Furring Channel 16mm x 4800mm	Attaching Panel to Framing	1	Length
	FC2848	Furring Channel 28mm x 4800mm	Attaching Panel to Framing	1	Length
	CB1660	Batten 16mm x 6m x 0.55 Bmt	Attaching Panel to Framing	1	Length
	CWPG-DFL	Batten Clip Direct Fix 150mm	Attaching Panel to Framing	100	Box
	CWPG-DFS	Batten Clip Direct Fix 192mm	Attaching Panel to Framing	100	Box
	BAB74519	Aluminum Party Wall Bracket	Attaching Panel to int. Framing	100	Box
	DT7630055	Deflection Head 76mm x 50mm x 3m x 0.55mm Bmt	Deflection Head for 75mm panel	1	Length
	DT5130055	Deflection Head 51mm x 3m x 0.55mm Bmt	50mm Party Wall Base - Residential Connection	1	Length

Installation Accessories List

Ref. Pic	Code	Description	Application	Qty/ Unit	Order Unit
	BA5030	Angle Bulk Head 50mm x 50mm x 0.75mm x 3000mm	Base Support for int. h/rise wall	1	Length
	BA5036	Angle Bulk Head 50mm x 50mm x 0.75mm x 3600mm	Base Support for int. h/rise wall	1	Length
	BA5024	Angle Bulk Head 50 x 50mm 1.15mm x 2400mm	Base Support for int. h/rise wall	1	Length
	HWT-HAG7533	Angle Bulk Head 75 x 75mm 3.0mm x 3000mm	Base Support for int. h/rise wall	1	Length
	15030	DPC Black Poly 150mm x 30m x 500um	DPC	6	Box
	30030	DPC Black Poly 300mm x 30m x 500um	DPC	6	Box
	BRD0650W	Polyethylene Foam Backing Rod 6mmX50m	Gap Filler	6	Roll
	BRD1050W	Polyethylene Foam Backing Rod 10mmX50m	Gap Filler	6	Roll
	BRD1350W	Polyethylene Foam Backing Rod 13mmX50m	Gap Filler	6	Roll
	BRD1550W	Polyethylene Foam Backing Rod 15mmX50m	Gap Filler	6	Roll
	BRD2050W	Polyethylene Foam Backing Rod 20mmX50m	Gap Filler	6	Roll
	ADHS20	AAC Panel Adhesive 20kg	Panel Connection Adhesive	1	Bag
	MTR20	AAC Mortar 20kg	Ground Fix	1	Bag
	230732006	Zinc Guard Coating Aerosol 400g	Exposed Steel Rod Coating	6	Each
	126581	AAC Base Sealer 4kg	Waterproofing For Residential	1	Each
	144898	Liquid Nails 350g	Attaching	6	Each
	130252	Flex & Seal Concrete Grey 600ml	Gap Seal	6	Each
	131478	Fire & Acoustic Sealant 600ml	Gap Seal	6	Each

DISTRIBUTOR:



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