



FAIRVIEW™

DEFINING ARCHITECTURE SINCE 1983



fibrefast®

FACTORY PAINTED FIBRE CEMENT / MANUFACTURED BY FAIRVIEW

INSTALLATION MANUAL

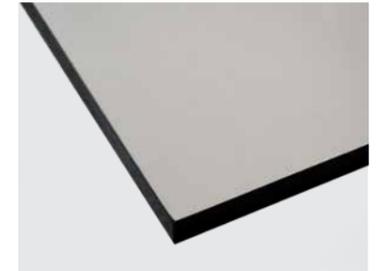
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ABOUT FIBREFAST

Fibrefast factory-painted fibre cement is suitable for use on commercial, industrial, institutional and residential buildings. The panels are non-combustible in accordance with the National Construction Code (NCC). Fibrefast is intended for use as an externally fixed cladding system over common structural substrates, including masonry, precast concrete, steel framing and timber stud framing.

Fibrefast is installed as a ventilated façade system, with panels supported on vertical top hats and fixed using colour-coded wafer head screws. Panels are supplied with a factory-applied acrylic coating and incorporate a charcoal core that provides a defined shadow-joint appearance at panel edges. As a prefinished system, Fibrefast reduces the requirement for additional onsite finishing trades. Exposed screw fixings allow straightforward panel removal, facilitating cavity inspections or panel replacement where required. When installed in accordance with this manual and relevant project specifications, the system is supported by a 5-year paint warranty and a 10-year panel warranty.



PROPERTIES

Length	2500/3000
Width	1200mm
Thickness	9mm
Weight	15kg/m ²

DISCLAIMER

The information contained in this publication and otherwise supplied to users of Fibrefast products is based on Fairview's general experience, best knowledge and belief. However, due to factors which fall beyond Fairview's knowledge and control, which can affect the use of the products, no warranty is given, express or implied with respect to fitness for particular purpose or otherwise.

It is the responsibility of the architect, designer and various engineering parties to ensure that the details in this Installation Manual are appropriate for the intended application.

Fairview reserves the right to alter specifications at any time and without notice. Products are subject to natural variation as part of the manufacturing process, colours and textures may vary according to light and weather conditions.

Due to this and limitations of the printing accuracy, colours in this brochure may vary. In case of doubt, please contact your local Fairview representative.

PRODUCT FEATURES

Material:	Compressed Fibre Cement
Finish:	Factory-applied acrylic coating.
Fixing System:	Colour coded wafer head screws - Face fix
Application:	Type A and B constructions such as mixed-use developments, residential, commercial and government infrastructure projects.
Warranty:	5-year warranty on coating and 10-year warranty on panel, subject to standard terms and conditions.

KEY FEATURES



INSTALLATION EFFICIENCY

Fibrefast panels arrive factory-finished with no onsite painting or curing required. This minimises onsite complexities, coordination requirements and weather-related delays, supporting more predictable and efficient project timelines.



COATING QUALITY

Each panel is finished with a smooth acrylic coating that is uniform in colour and thickness. The finish is durable, impact-resistant and backed by a 5-year coating warranty, offering confidence and consistency across every project.



COST EFFICIENT

The prefinished, factory-painted panels support faster installation and lower the need for additional trades, onsite painting and extended scaffolding requirements.



EASILY CUT ONSITE

The combination of a flexible acrylic surface coating and a through-coloured charcoal baseboard allows panels to be cut cleanly without affecting their appearance.



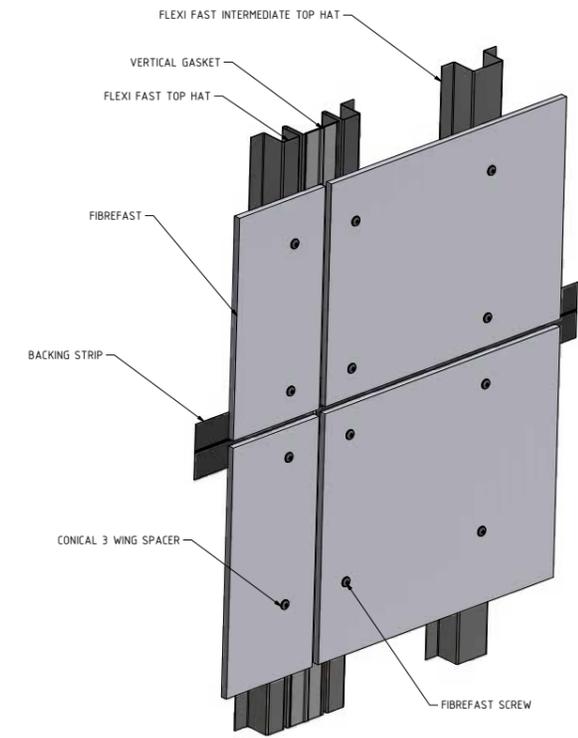
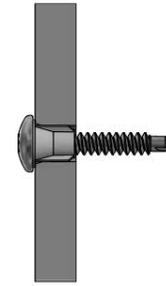
ENERGY EFFICIENT

The ventilated rainscreen façade system, improving building performance through effective moisture management and enhanced thermal efficiency, supporting healthier building envelopes.



DURABILITY

As a compressed fibre cement product, Fibrefast delivers proven strength, impact resistance, and dimensional stability, ensuring long-term performance in harsh Australian environments.



HANDLING & STORAGE

STORAGE

1. Fibrefast façade boards are delivered on pallets. Always store Fibrefast products on a flat, dry and level surface and support at 300mm maximum centres.
2. Do not stack the pallets more than three high, and ensure protective material is placed between the pallets.
3. If the pallets are stored outside, they should be covered with a heavy-duty waterproof tarpaulin. Ensure ventilation around the tarpaulin to ensure condensation is reduced.
4. If the Fibrefast façade boards are stored on site for more than 2 weeks, they should be kept indoors in a dry and well-ventilated location.

LIFTING FIBREFAST FAÇADE BOARDS

When lifting Fibrefast façade boards, consider your lifting procedures in terms of both safety and avoiding damage to the boards.

1. Always lift panels cleanly off each other, do not slide panels over one another as scratching and damage may occur.
2. Panels should be carried horizontally on edge by at least two people.
3. When lifting large boards, use mechanical lifting gear if possible. If this lifting gear uses suction/vacuum, be careful not to apply too much suction, as this may damage the surface or leave permanent marks.

TRANSPORT

1. Moving panels that are stacked or palletised should be done with a forklift or crane.
2. If using a forklift, ensure tines are wide enough apart to adequately support the panels.
3. If using a crane, use wide, soft lifting straps that will not damage the panels.
4. Panels should be strapped and secured to pallets before transporting or handling with a forklift or crane.

HEALTH & SAFETY

WARNING - DO NOT BREATHE DUST AND CUT ONLY IN WELL-VENTILATED AREAS

Fibrefast products contain sand, a source of respirable crystalline silica which may cause cancer. Breathing excessive amounts of respirable silica dust can also cause a disabling and potentially fatal lung disease called silicosis, and has been linked with other diseases.

During installation or handling:

1. Work in outdoor areas with ample ventilation.
2. Minimise dust when cutting by using a dust-reducing circular saw attached to an appropriate, well maintained, filtered vacuum.
3. Warn others in the immediate area to avoid breathing dust.
4. Wear a properly-fitted, approved dust mask or respirator (e.g. P1 or P2) in accordance with applicable government regulations and manufacturer instructions to further limit respirable silica exposures.

During clean-up use a vacuum and filter, both of which are well maintained and appropriate for capturing fine (respirable) dust. Alternatively, use wet clean-up methods - never dry sweep. For further information, refer to our Safety Data Sheets.

FAILURE TO ADHERE TO OUR WARNINGS, SAFETY DATA SHEETS, AND INSTALLATION INSTRUCTIONS MAY LEAD TO SERIOUS PERSONAL INJURY OR DEATH.

RECOMMENDED SAFE WORKING PRACTICES

CUTTING OUTDOORS

1. Position cutting station so wind will blow dust away from the user or others in working area.
2. Position the cutting station in a well-ventilated area. Use a dust-reducing circular saw attached to an appropriate, well maintained, filtered vacuum appropriate for capturing fine (respirable) dust.

DRILLING/OTHER MACHINING

When drilling or machining you should always wear a P1 or P2 dust mask and warn others in the immediate area.

IMPORTANT NOTES

1. For maximum protection (lowest respirable dust production) Fairview recommends always using best practice cutting methods where feasible.
2. NEVER use a power saw indoors.
3. ALWAYS use a saw blade that is purpose-made for cutting fibre cement products.
4. NEVER dry sweep - use wet suppression or appropriate vacuum and filter.
5. NEVER use grinders.
6. ALWAYS follow tool manufacturers' safety recommendations.

DUST MASKS AND RESPIRATORS

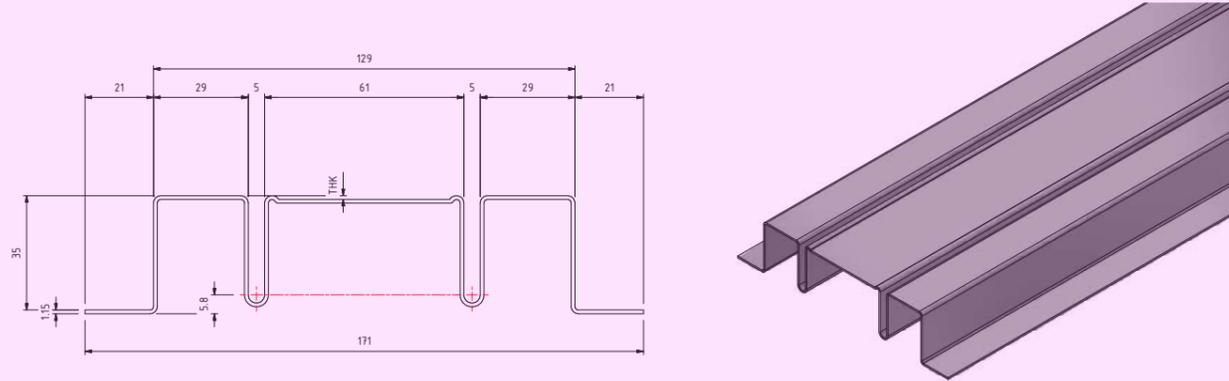
Fairview recommends the use of P2 respirators as best practice. As a minimum, an AS/NZS1716 P1 respirator must be used when doing any activity that may create dust. For more extensive guidance and options for selecting respirators for workplaces please refer to Australian/New Zealand Standard 1715:2009 "Selection, Use and Maintenance of Respiratory Protective Equipment". P1 or P2 respirators should be used in conjunction with the above cutting practices to minimise dust exposure.

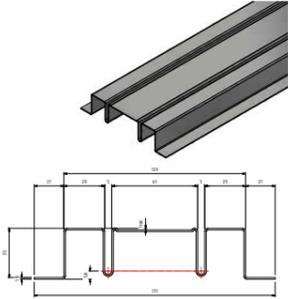
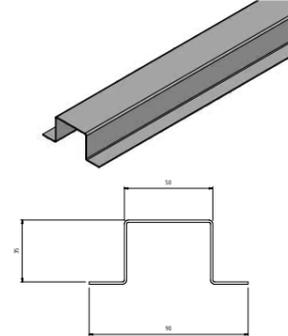
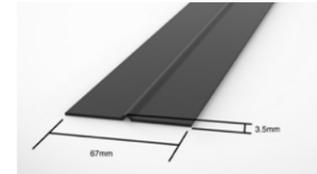
For further information, refer to Safety Data Sheet (SDS). If concern still exists about exposure levels or you do not comply with the above practices, you should always consult a qualified industrial hygienist or contact Fairview for further information.

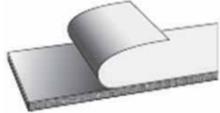
COMPONENTS

Vitrafix Top Hat is a purpose designed rolled steel section for supporting the vertical edges of the Fibrefast panel. The unique profile also acts to accommodate movement of the sheets at the vertical joints. It is designed to be used in conjunction with the Vitrafix Vertical Gasket.

The Vitrafix Flexi-Fast™ Top Hat is manufactured from roll-formed galvanised (Z275) steel for excellent durability.



DESCRIPTION	SIZE / QTY		
	THICKNESS [MM]	WIDTH [MM]	LENGTH [MM]
 <p>FIBREFAST FAÇADE BOARD Factory-painted compressed fibre cement board.</p>	9	1200	3000 2500
 <p>VITRAFIX 115MM STEEL W TOP HAT Top Hat - Designed to span vertically across the building structure to support the façade panels at vertical joints. 120 X 35 X 0.75 BMT / 1.15MM BMT The Joining Top Hat is a roll formed steel section which is manufactured from galvanised (Z275) steel of 0.75 BMT and 1.15mm BMT.</p>	5.8m - 6m		
 <p>VITRAFIX INTERMEDIATE TOP HAT Metal top hat installed vertically for intermediate sheet support. 50 X 35 X 0.75 BMT / 1.15MM BMT Intermediate Top Hat is a roll formed steel section which is manufactured from galvanised (Z275) steel of 0.75 BMT and 1.15mm BMT.</p>	5.8m - 6m		
 <p>FIBREFAST 3.5MM BACK FLASHING Fibrefast / Vitrafix 3.5mm Back Flashing Used as a weather seal for horizontal joints between Fibrefast boards. 3.5MM X 0.48 BMT Vitrafix Backing Strip is a rolled section designed to support the gasket and/ or sealant behind the horizontal expressed joints. Vitrafix Backing Strip is manufactured from high tensile Colorbond steel, and is black in colour.</p>	3m		

	DESCRIPTION	SIZE / QTY
	<p>PERFORATED BASE FLASHING</p> <p>Used at the base of wall to exclude vermin and allow ventilation.</p>	<p>Available as Small (50 x 30 x 2400mm); Medium (70 x 30 x 2400mm); and Large (100 x 30 x 2400mm). All profiles have a 4.5mm diameter perforated hole size.</p>
	<p>FIBREFAST SWS (SPACER-WASHER-SEAL)</p> <p>Weather Seal is a green, UV stabilised nylon washer. It is used with Fibrefast Exposed Head Screws to provide an interference fit, delivering high weather resistance and acting to lock the screw into position.</p>	
	<p>VITRAFIX GASKET TAPE</p> <p>Vitrafix vertical gasket is made from EPDM closed cell foam which has high UV resistance. The gasket has adhesive on one side (with a release paper), and is adhered to the Vitrafix Top Hat to prevent moisture entry at vertical joints.</p>	<p>25 x 3mm x 25m Roll 48 x 3mm x 25m Roll</p>
	<p>SAW BLADE</p> <p>Saw blade for fast and clean cutting of Fibrefast façade boards using a plunge or circular saw.</p>	<p>160mm Dia x 4T x 20mm</p>
	<p>FIBREFAST SCREW</p> <p>The colour coded Exposed Head Screw has a buttress thread which is designed to provide maximum holding power in light gauge steel.</p>	

DESIGN CONSIDERATIONS

This guide represents good practice, though it is not intended as an exhaustive statement of all relevant information. It remains the responsibility of the building designer to verify that the Fibrefast is suitable for the particular requirements of any given project.

COMPLIANCE

All design and construction must comply with the appropriate requirements of the current National Construction Code (NCC), regulations and standards.

GROUND CLEARANCE

Install Fibrefast façade boards with a minimum 150mm clearance to the Earth on the exterior of the building or in accordance with local building codes if greater than 150mm is required. Also, maintain a minimum 50mm clearance between Fibrefast façade boards and roofs, decks, paths, steps and driveways. Adjacent finished grade must slope away from the building in accordance with local building codes, typically a minimum slope of 50mm over the first metre.

Do not install external cladding in areas where it may remain in contact with standing water or debris.

MOISTURE MANAGEMENT

Fibrefast façade boards acts as a rainscreen. To achieve a particular level of weathertightness and ensure occupant comfort and protection of the building frame, the designer must determine the appropriate moisture management detailing for the project.

It is the responsibility of the builders and designers to identify moisture related risks associated with any particular building design. It is the responsibility of the builder to ensure appropriate moisture management is provided during framed wall construction through effective use of flashings, sealants and vapour permeable membranes such as Fibrefast Wall Wrap weather barrier, building wraps, vapour retarders and damp proof course. Before installing panels, all wall openings, penetrations, intersections, connections, window sills, heads and jambs must incorporate appropriate flashing and waterproofing. Materials, components and the installation practices that are used to manage moisture in framed wall construction must, at a minimum, comply with the requirements of relevant standards, building codes and the manufacturer's specifications.

MOVEMENT CONTROL JOINTS

When installing Fibrefast, the movement of the façade boards and the support structure must be considered in the overall design of the system. Movement joints in the panel layout should be aligned with movement control joints provided in the structural framing.

HORIZONTAL CONTROL JOINTS

A horizontal control joint is required beneath every floor junction to accommodate any expected deflection. The magnitude of the deflection must be verified by the project engineer.

VERTICAL CONTROL JOINTS

Vertical control joints to allow for differential movement are required every 12m along the façade, at supports of fascia trusses and at the junction of structural elements of different stiffness, such as between concrete walls and stud frames.

A control joint must also be installed when a masonry wall adjoins framed construction, and at the junction of framed additions or existing buildings, to allow for differential movement.

Vertical joints in panels must be aligned and extend for the full height of continuous panelling, although additional joints may be placed over openings for ease of installation.

DURABILITY

Fibrefast façade system has many properties which make it a very durable product, including:

- Immune to permanent water damage in both short and long-term exposure.
- Will not rot, burn or corrode, and is unaffected by termites, air, steam, salt and sunlight.
- Not adversely affected over a temperature range of 0°C to 95°C.
- Conforms with the National Construction Code (NCC) requirements for external wall applications.

The durability of Fibrefast can be enhanced by periodic inspection and maintenance. Inspections should include examination of the coatings, flashings and seals.

Paint finishes must be maintained in accordance with the manufacturer's recommendations. Any cracked or damaged finish or seals which would allow water ingress, must be repaired immediately by recoating or resealing the effected area, or by removing the panel and replacing gaskets. Any damaged flashings, sheets or gaskets must be replaced as for new work.

The durability of the system can be increased by the additional treatment of steelwork, and by painting all exposed sealants to the sealant manufacturer's recommendations. In corrosivity category D, barriers to reduce the ingress of salt laden air are required.

Fibrefast should not be used within 300m of breaking surf.

Wash-down:

- All walls must be sufficiently exposed from above so that rain can perform natural wash-down of the wall.

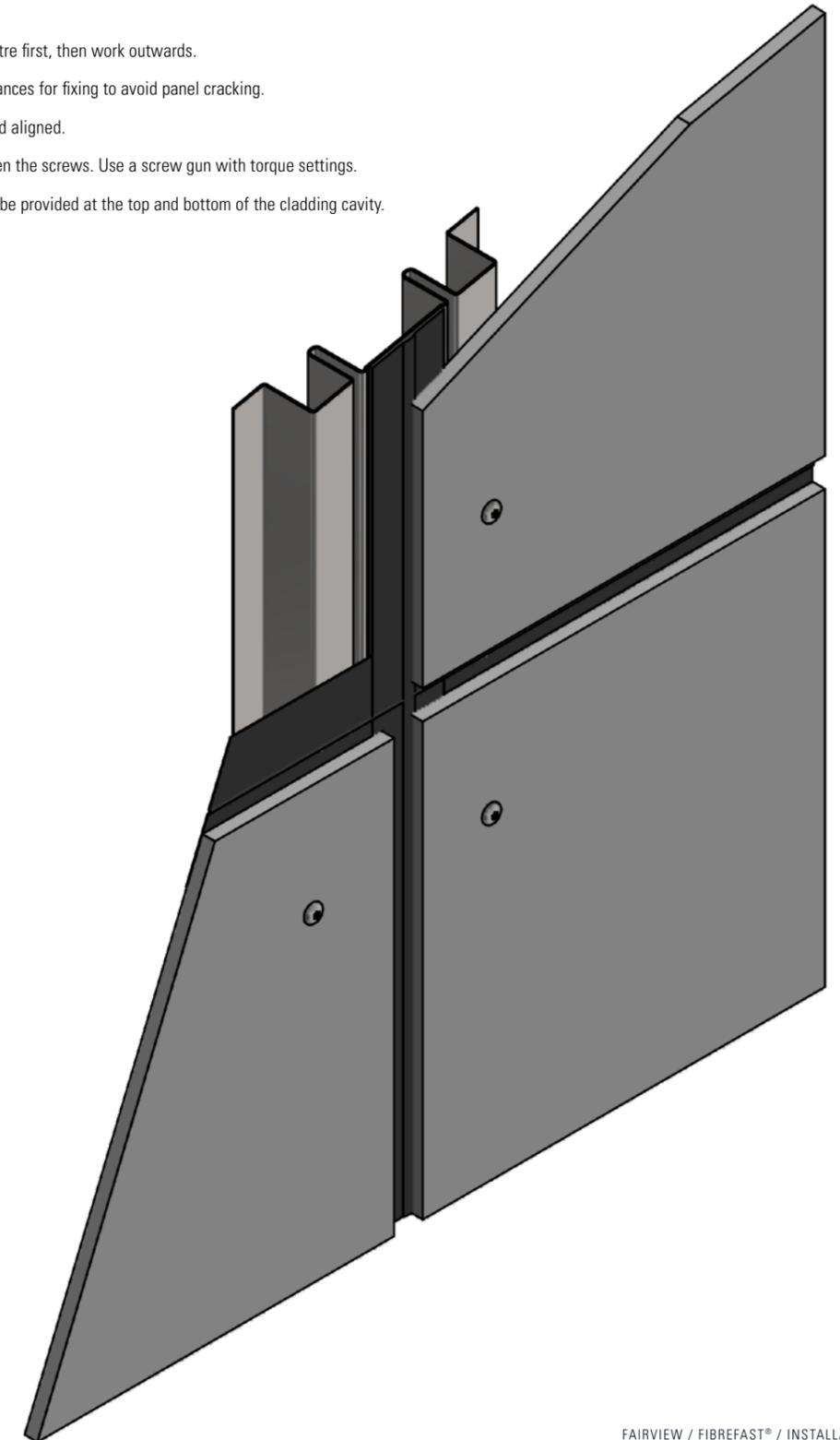
OR

- Walls which are protected by soffits above must be washed down twice per year, to remove salt and debris build-up, particularly at joints.
- For additional guidance on corrosive environments, refer to AS2312 – Guide to protection of structural steel against atmospheric corrosion by the use of protective coatings

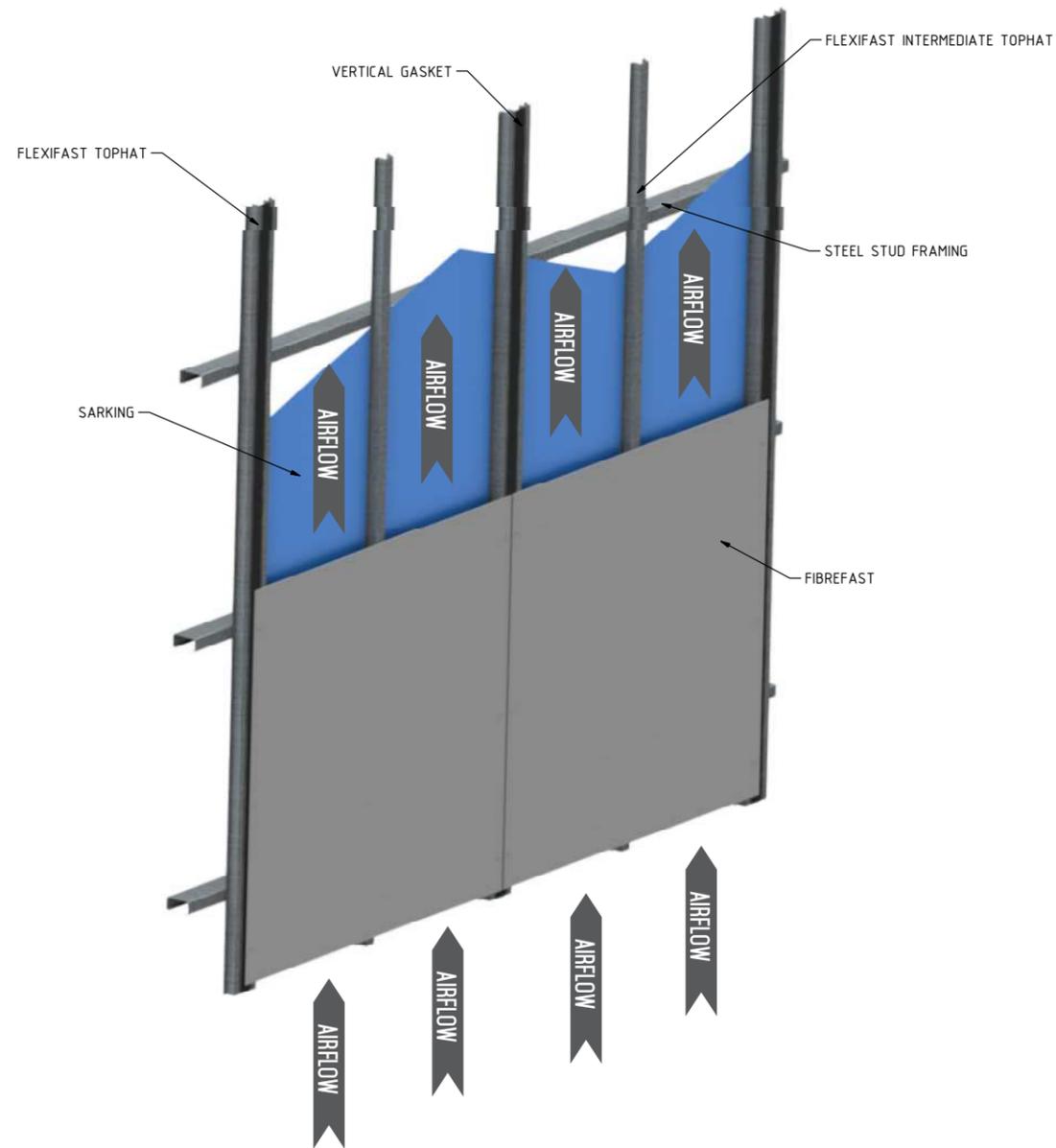
INSTALLATION CONSIDERATIONS

Important considerations for a successful install and warranty.

- Follow the cutting guide.
- Install screws at panel centre first, then work outwards.
- Follow minimum edge distances for fixing to avoid panel cracking.
- Ensure sub-frame is flat and aligned.
- Take care not to over-tighten the screws. Use a screw gun with torque settings.
- Sufficient ventilation must be provided at the top and bottom of the cladding cavity.



INSTALLATION OVERVIEW



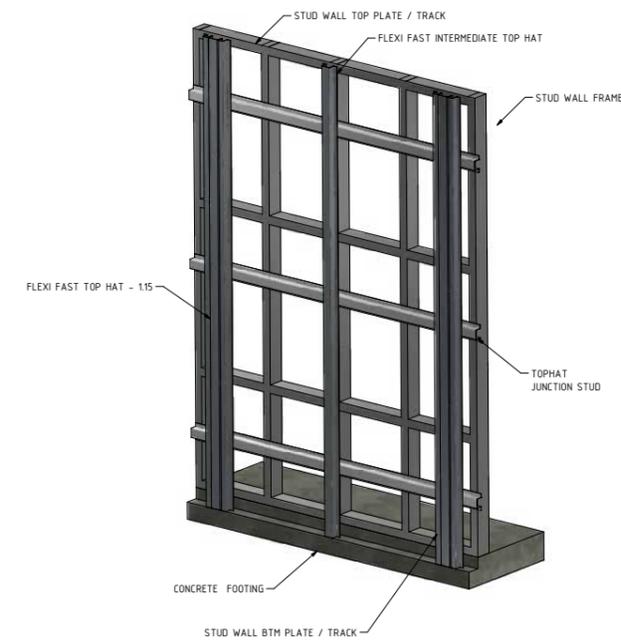
SYSTEM OVERVIEW SHOWING AIRFLOW

- A. Structural Support
- B. Fibrefast Gasket Tape
- C. Vitrafix Sarking
- D. Fibrefast Joining Top Hat
- E. Vitrafix Intermediate Top Hat
- F. Fibrefast Façade Board

STRUCTURAL SUPPORT

Vitrafix top hats and intermediate top hats must be installed vertically, and supported by a primary structural system. Vitrafix top hats can be fixed to horizontal structural steel framing which is commonly used for large walls and buildings.

FIXING TO STEEL OR TIMBER FRAMING



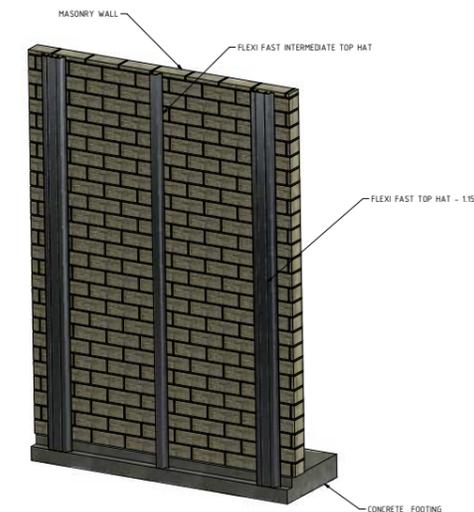
FIXING TO STEEL OR TIMBER FRAMING



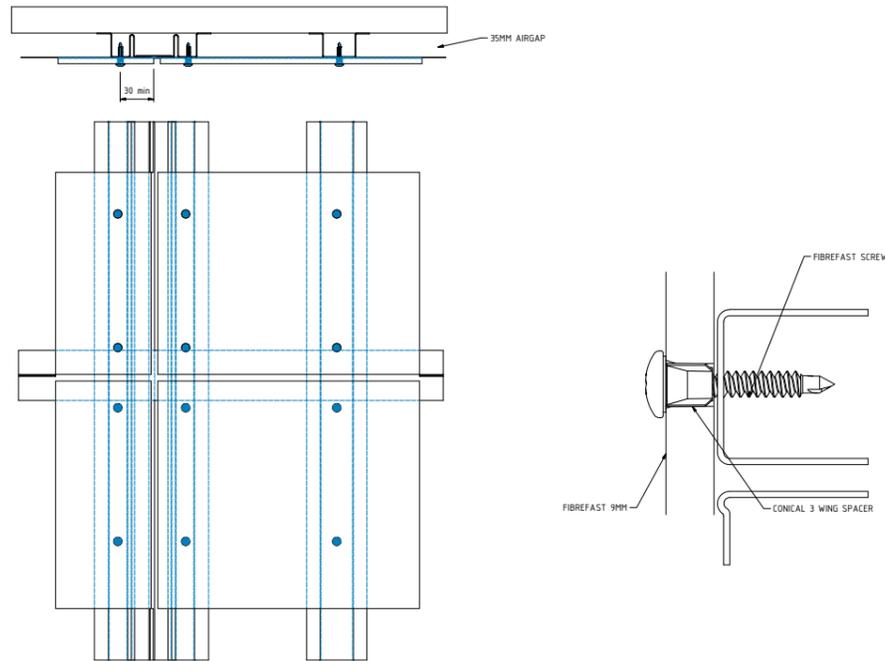
Alternatively, Fibrefast framing can be fixed to appropriately designed steel or timber framing. This is commonly used for small walls and buildings. The frame must be designed to support the top hats at the top and bottom of the wall, and at cross members within the span of the wall. The connection of the cross member to the frame requires engineering design.

Fibrefast framing can also be fixed over masonry or concrete walls. All top hat connections must be designed by the project engineer.

FIXING TO EXISTING MASONRY WALL



GENERAL LAYOUT ARRANGEMENT



PANEL LAYOUT

Panel layout for the Fibrefast façade system involves the coordination of the following:

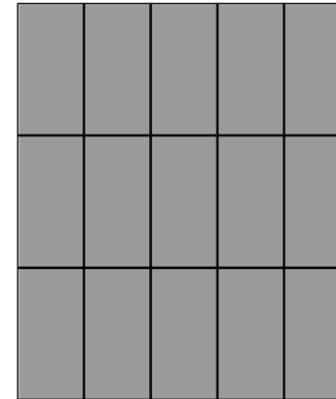
- Aesthetic Design.
- Top Hat Spacing.
- Type of Structural Support.
- Openings – Size and Location.
- Building Size.
- Fibrefast Size and Joint Width (Horizontal joints are 10 to 20mm wide and vertical joints are 6 to 20mm wide).
- Building Control Joint Location

Panel layout can be in a grid pattern where vertical and horizontal joints are continuous. Panels may be positioned vertically, horizontally or rotated up to 45° in the plane of the wall.

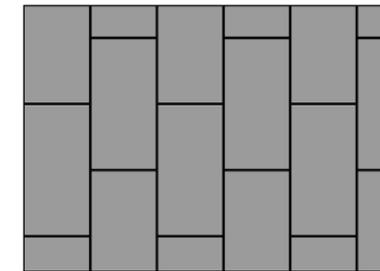
In these layouts, construction joints may be positioned behind any vertical or horizontal sheet joint. For details on control joints, refer to page X.

Panel layout can also be in a vertical or horizontal half-bond pattern where some joints are discontinuous.

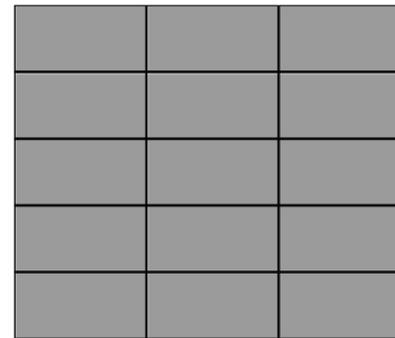
VERTICAL SHEETING ALIGNED GRID PATTERN



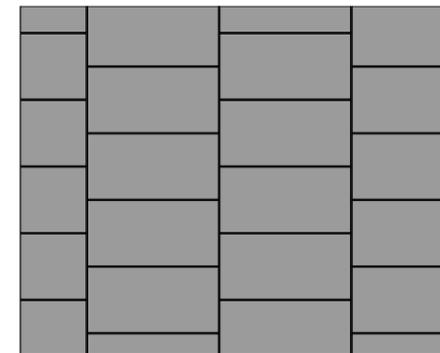
HORIZONTAL SHEETING ALIGNED GRID PATTERN



VERTICAL SHEETING HALF-BOND PATTERN



HORIZONTAL SHEETING HALF-BOND PATTERN



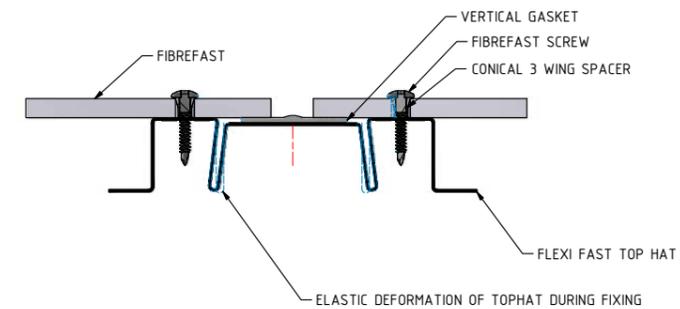
GASKETS

Gaskets are used at horizontal and vertical joints to maintain weather resistance.

The vertical gasket is made from EPDM rubber which has good weathering and UV resistance. It has very low compression set and water permeability.

Vitrafix Top Hat 1.15 has been designed to elastically deform when pressure is applied during panel fixing. Vitrafix Top Hat 0.75 has a recessed area to accept the gasket. These designs ensure that only the required pressure is applied to the vertical gasket.

VERTICAL GASKET COMPRESSION



The horizontal gasket is a closed cell PVC Nitrile foam which has a high resistance to abrasion and maintains its properties at high temperatures. It is highly conformable and has excellent resistance to water penetration.

TOP HAT FRAMING

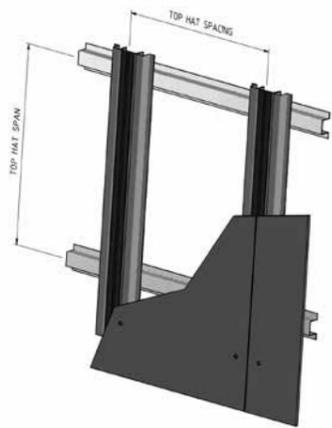
The design capacities of Fibrefast are in limit state format and intended for use with AS/NZS1170.2.

To obtain equivalent permissible load capacity divide the 'Ultimate Wind Capacities' in Table 2 or Table 3 by 1.5.

The top hat capacities in Table 2 and Table 3 have been calculated in accordance with AS4600: Cold Formed Steel Structures and are applicable 0.75 BMT and 1.15 BMT Fibrefast Flexi-Fast Top Hats.

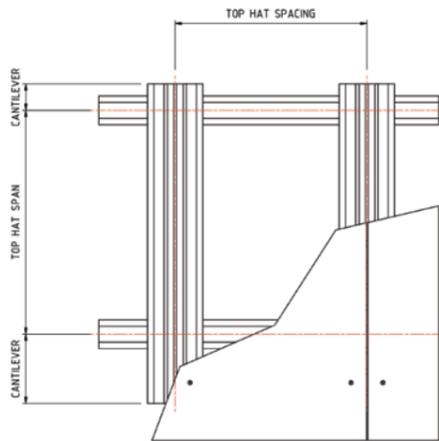
Top Hats and for 1.15 BMT Intermediate Top Hats.

SINGLE SPAN INSTALLATION

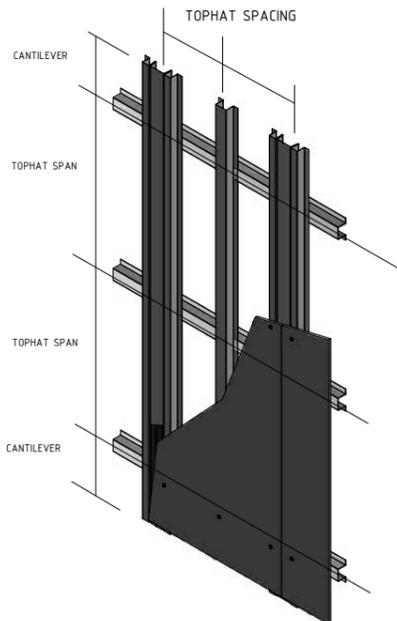


Maximum Cantilever = 0.2 x Adjacent Top Hat Span

SINGLE SPAN INSTALLATION - ELEVATION



DOUBLE SPAN INSTALLATION



If adjacent spans differ by more than 25% then single span values must be adopted.

Maximum Cantilever = 0.2 x Adjacent Top Hat Span

DOUBLE SPAN INSTALLATION

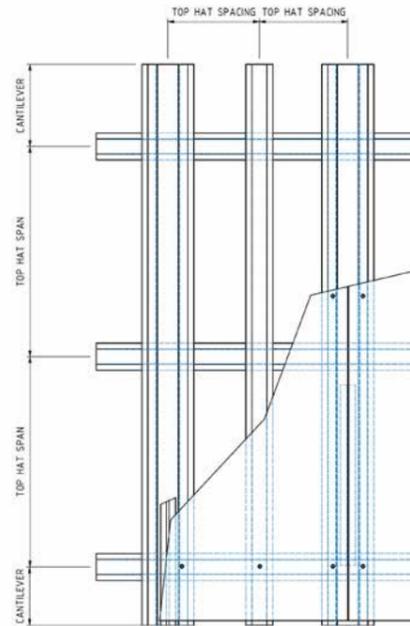


TABLE 2: ULTIMATE WIND CAPACITY

The maximum span of the vertical Top Hats:

SPAN TYPE	TOP HAT SPACING (THS)	DESIGN WIND ULS (KPA)						
		2.0	2.5	3.0	3.5	4.0	4.5	5.0
Single Span 0.75 BMT Top Hat	410	1225	1150	1075	1025	975	925	900
	520	1125	1050	1000	950	900	875	825
	630	1075	975	925	875	850	800	775
Double Span 0.75 BMT Top Hat	410	1650	1475	1350	1250	1175	1100	1050
	520	1475	1300	1200	1100	1025	975	925
	630	1325	1200	1075	1000	925	875	825
Single Span 1.15 BMT Flexi-Fast Top Hat	410	1475	1375	1300	1225	1175	1125	1075
	520	1375	1275	1200	1125	1075	1050	1000
	630	1275	1175	1125	1050	1025	975	950
Double Span 1.155 BMT Top Hat	410	1975	1850	1725	1625	1525	1450	1375
	520	1825	1700	1575	1450	1350	1275	1200
	630	1725	1550	1425	1325	1225	1150	1100

- NOTE:**
- The Flexi-Fast Top Hat in this table is G250 1.15 BMT & 0.75 BMT.
 - The deflections of the vertical Top Hats are checked with a deflection limit of $\text{Span} / 360$.
 - The ULS wind loads can be converted to the SLS wind loads by applying a ratio of 0.65.
 - The fixing of vertical Top Hats to horizontal members must be designed by the relevant project engineers.

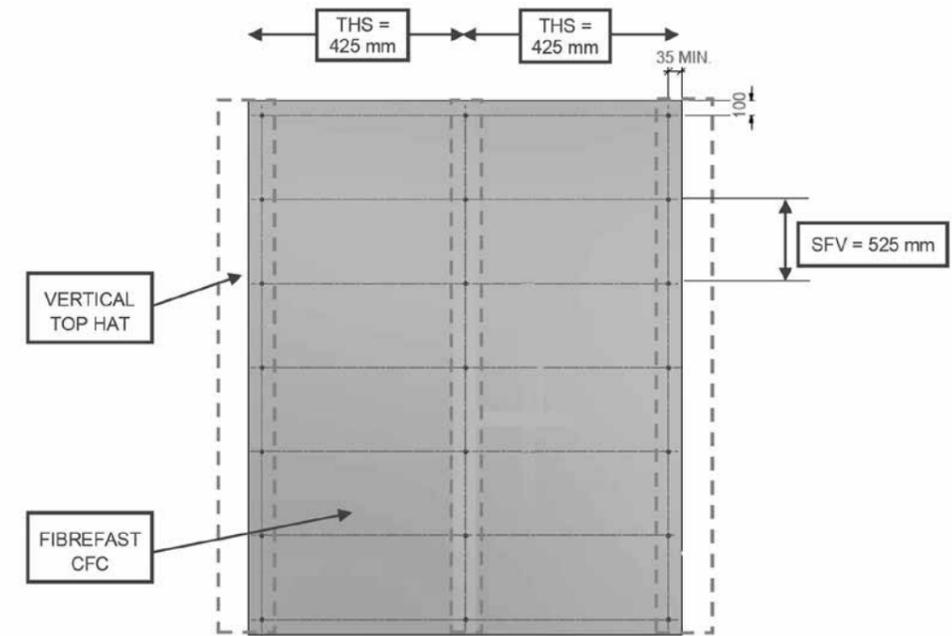
FIBREFAST JOINING AND VITRAFIX INTERMEDIATE TOP HATS

DESIGN WIND SUCTION ULS [KPA]	TOP HAT SPACING [THS]	1.15 BMT TOP HAT SCREW FIXING VERTICAL SPACING [SFV]	0.75 BMT TOP HAT SCREW FIXING VERTICAL SPACING [SFV]
2.0	630	450	275
2.5	630	350	225
3.0	630	300	175
3.5	630	250	150
4.0	630	225	125
4.5	630	200	125
5.0	630	175	100
2.0	410	675	450
2.5	410	550	350
3.0	410	450	300
3.5	410	375	250
4.0	410	325	225
4.5	410	300	200
5.0	410	275	175

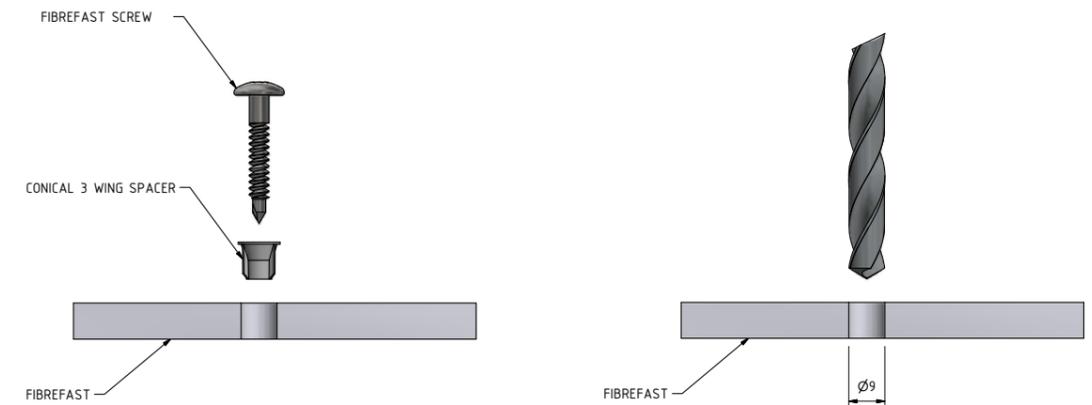
TABLE 8.

- NOTE:**
- FibreFast CFC panel is fixed to Flexi-Fast Top Hats using FibreFast screws.
 - The Flexi-Fast Top Hats are G250 1.15 BMT & 0.75 BMT.
 - The design pull-out capacity of the screw from 0.75 BMT Top hat is ϕ Nou = 0.49 kN/screw as per AS/NZS 4600:2018.
 - For the design of the Flexi-Fast Top Hats 0.75 BMT, please refer to Table 10 and Table 11. from Fairview Fibrefast CFC and top hat system design summary
 - The design pull-out capacity of the screw from 1.15 BMT Top hat is ϕ Nou = 0.75 kN/screw as per AS/NZS 4600:2018.
 - For the design of the Flexi-Fast Top Hats 1.15 BMT, please refer to Table 8 and Table 9 from Fairview Fibrefast CFC and top hat system design summary

TYPICAL SCREWED FIXINGS LAYOUT



9MM MASONRY DRILL FOR EXPOSED HEAD



PANEL FIXED TO TWO TOP HATS ONLY

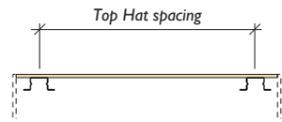
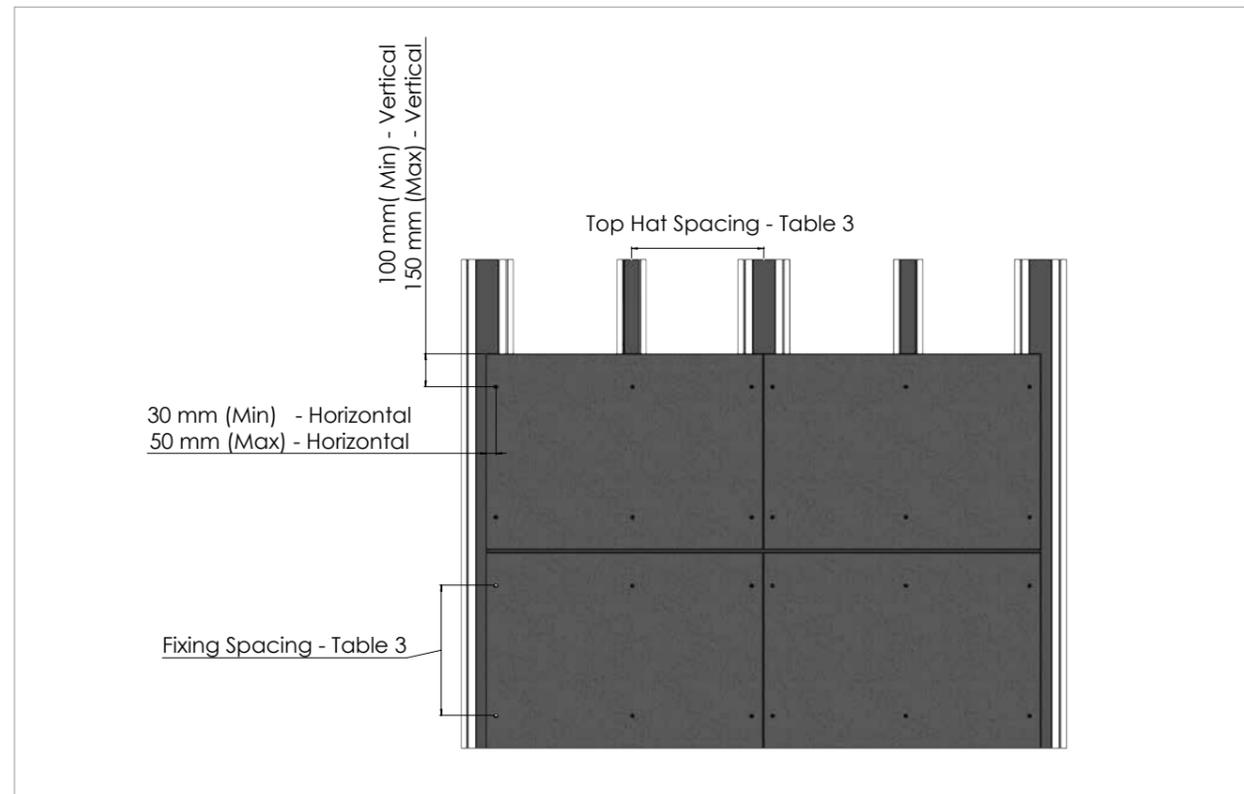
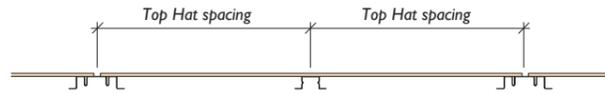


FIG 23: PANEL FIXED TO THREE OR MORE TOP HATS



CUTTING & DRILLING

When cutting Fibrefast façade boards, it is important to use the correct blade. Fairview recommends using a special purpose Diamond tipped fibre cement saw blade used with a dust reducing saw.

Examples:

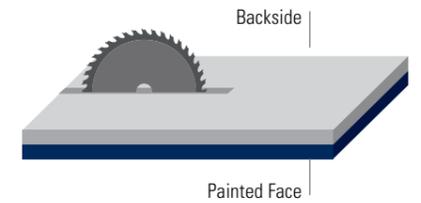
4 tooth blades are recommended for the best cut using a circular saw. Supplied by Fairview.



An 18 tooth diamond tip wall-saw blade. The more teeth, the smoother the cut.



A dust-reducing saw uses a dust deflector or a dust collector, which can be connected to a vacuum extraction system.



INSTRUCTIONS

To achieve the best quality cut and to know which side to cut from, ensure to follow these instructions:

1. When cutting on a wall saw, place panel face out and cut with protective film still on panel.
2. When cutting with a circular saw, cut panel face down with protective film still on the panel.
3. After cutting the panels, lightly sand the edges with sandpaper to create a beveled edge. This will help minimise visible chipping and reduce the risk of future damage, enhancing the overall appearance of the panels. Use 120-grit sandpaper.

Drill all holes in the panels from the face side to prevent excess paint chipping.

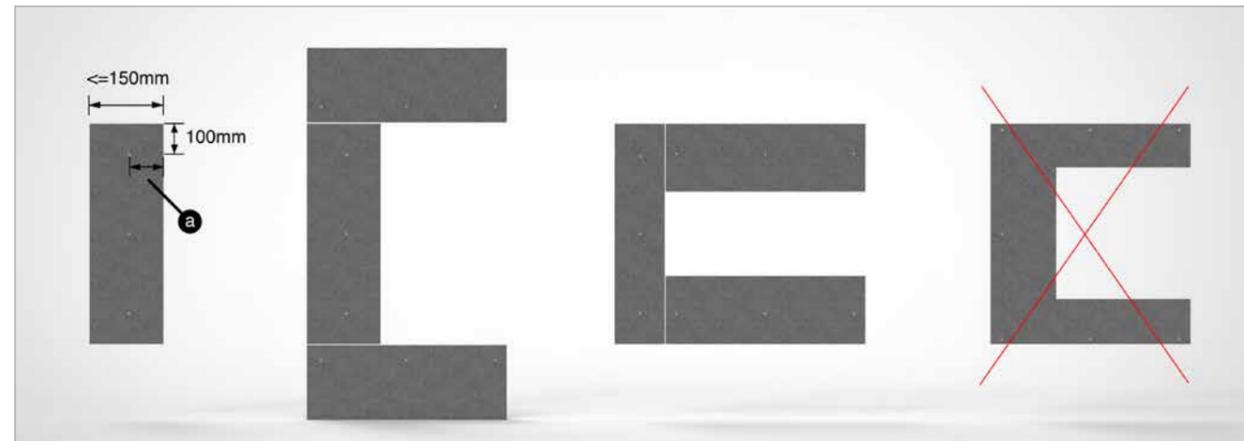
Recommended 9x35/70mm diameter fibre cement drill bit below:



CUT OUTS

To avoid cracking the Genesis Fibrefast boards when installing around windows, doors and other openings, ensure the boards are installed in accordance with the following instructions:

- Avoid cutting single, exact apertures in boards, rather to cut smaller sections and install them individually.
- Ensure that there is support behind the joints, onto which the façade board can be mounted.
- If the small cut outs are no wider than 150mm, they can be mounted with one rivet fixing in the middle of the board width (see Figure 13).



Correct installation of Fibrefast façade boards at windows, doors and openings

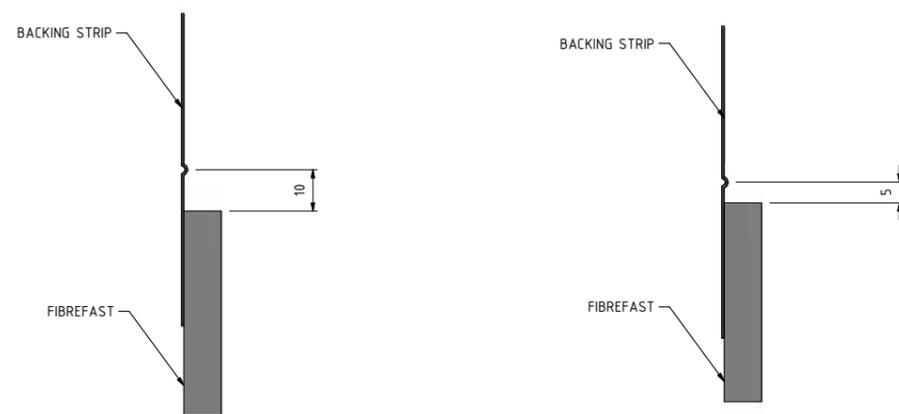
a: If the small cut-outs are not wider than 150mm, they can be mounted with only one rivet in the middle of the board.

Incorrect installation of Fibrefast façade boards at windows, doors and openings

BACKING STRIP FIXING

Backing strip is installed behind all horizontal panel joints. Backing strip is to be 6mm shorter overall than the width of Fibrefast board (cut to length if necessary) and adhered to the back of the panel (along the top edge) with Sikaflex-11FC (or approved equivalent).

HORIZONTAL BACKING STRIP



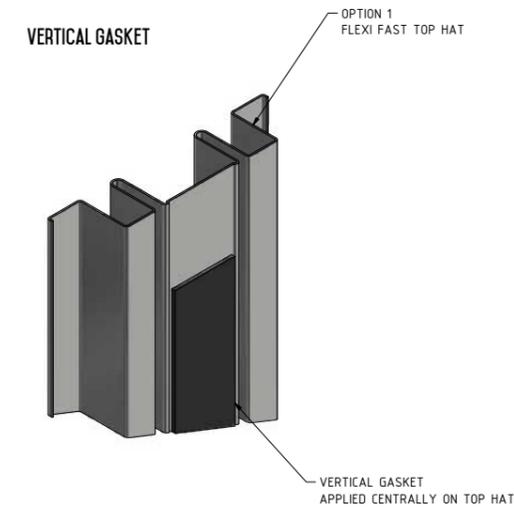
FOR 10MM HORIZONTAL JOINT

Backing strip is adhered to the back of the panels with a continuous bead of Sikaflex-11FC. The bead must be a suitable size so that when pressed flat, adhesive fully covers the interface between the backing strip and the Fibrefast board.

PANEL INSTALLATION

INSTALLING VERTICAL GASKET

Install vertical gasket to central section of the Vitrafix Top Hat for the full extent of panels. Be careful not to stretch the gasket when installing. When joining gasket, cut ends cleanly and push together before adhering.



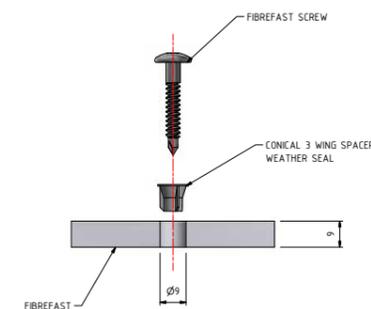
When top hat is discontinuous, butt ends together tightly and continue gasket over the joint. If a gap is present, install a steel strip to support the gasket.

PANEL FIXING USING EXPOSED HEAD FASTENERS

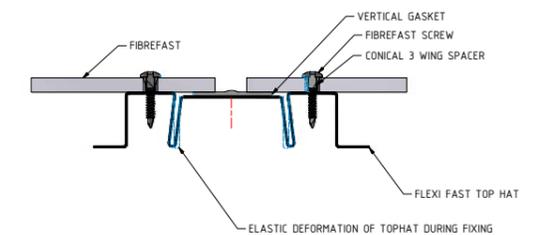
Install the Fibrefast Weather Seal into the pre-drilled hole in the Fibrefast board. Drive the exposed head screw through the weather seal and into the top hat using an electric screw gun. It is recommended to use a screw gun with torque control to prevent over-drilling of screws.

Exposed heads screws can only be used with 0.75 BMT and 1.15 BMT top hats.

FIXING WITH EXPOSED HEAD SCREWS

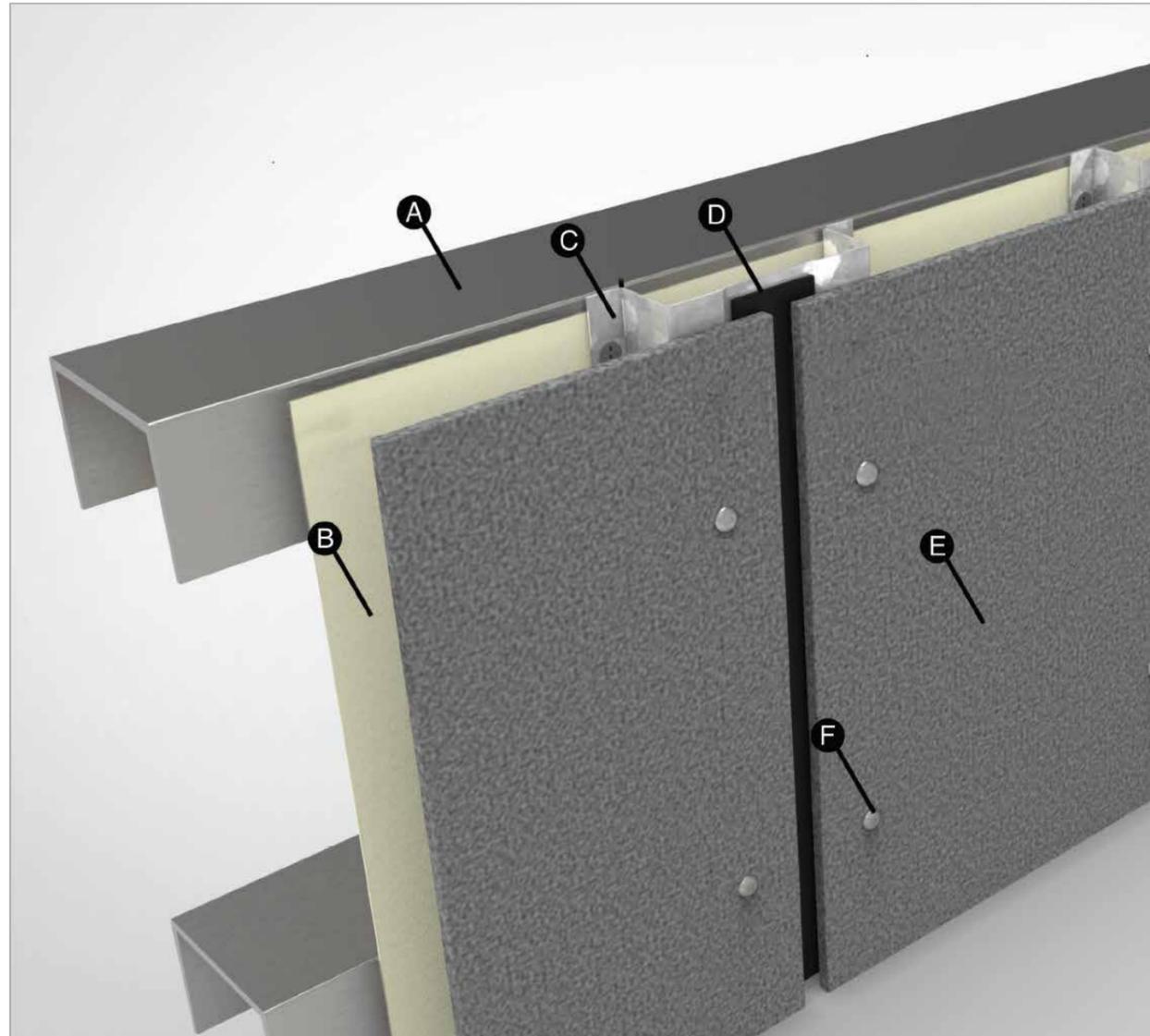


VERTICAL JOINT DETAIL



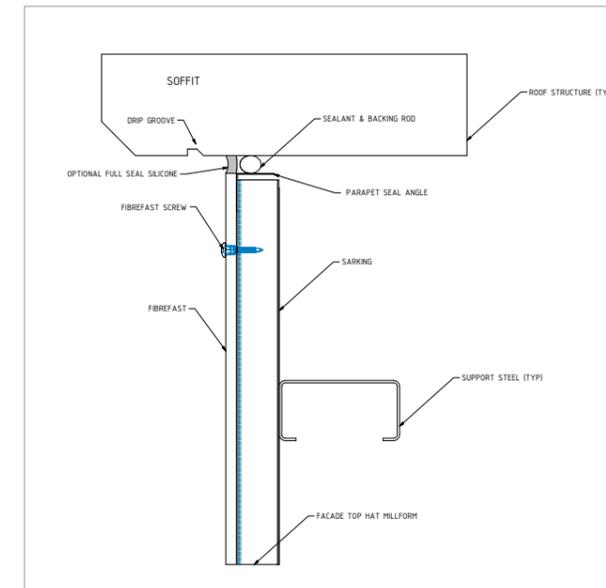
FIXING DETAIL

VERTICAL JOINT

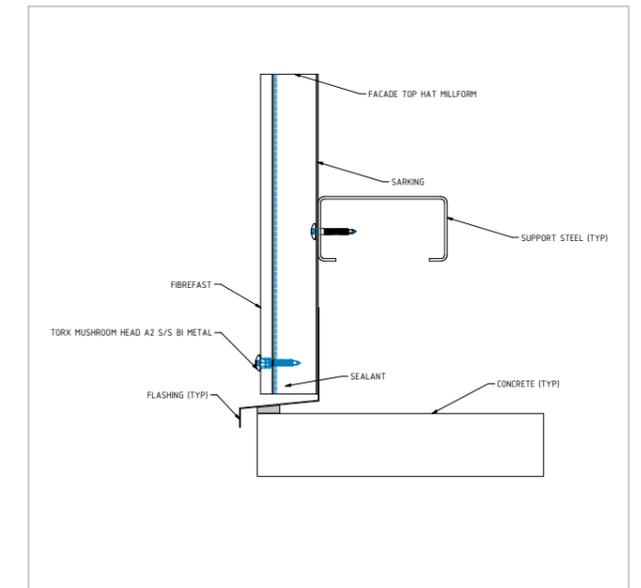


- A. Steel Framing
- B. Vitrafix Sarking
- C. Fibrefast Joining Top Hat
- D. Fibrefast Gasket
- E. Fibrefast Façade Board
- F. Fibrefast Façade Rivet

DEFLECTION HEAD

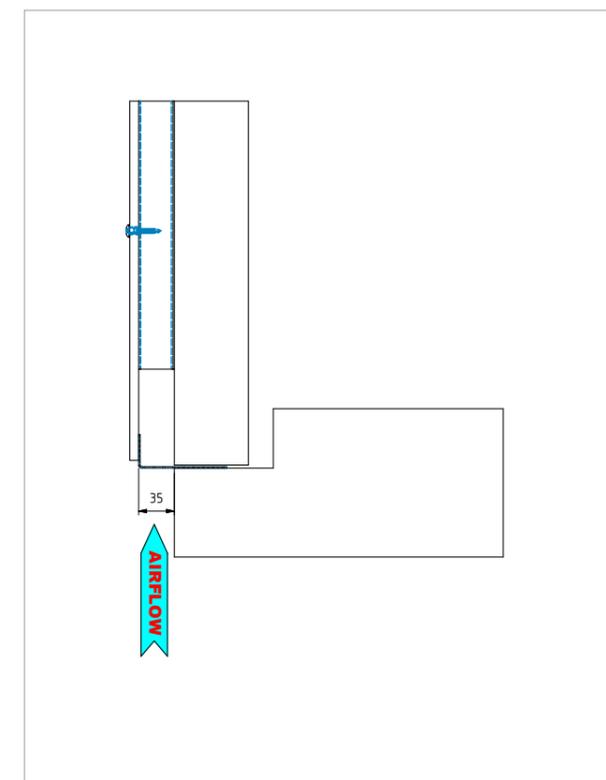


BASE DETAIL - STANDARD

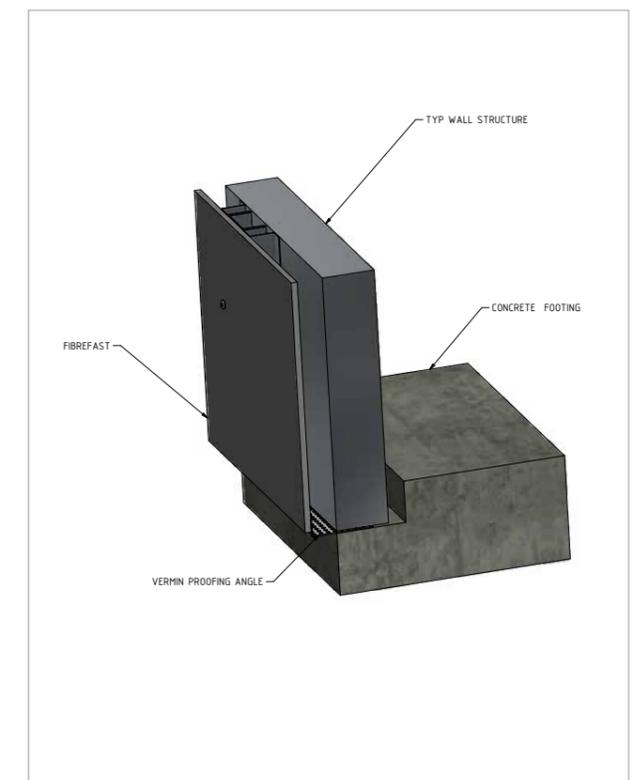


VERTICAL CROSS SECTION - FOUNDATION

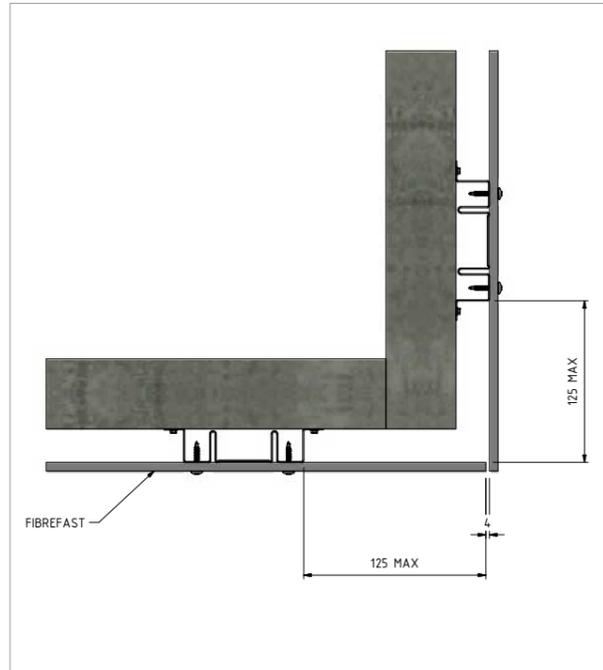
BASE DETAIL - ANTI-VERMIN ANGLE



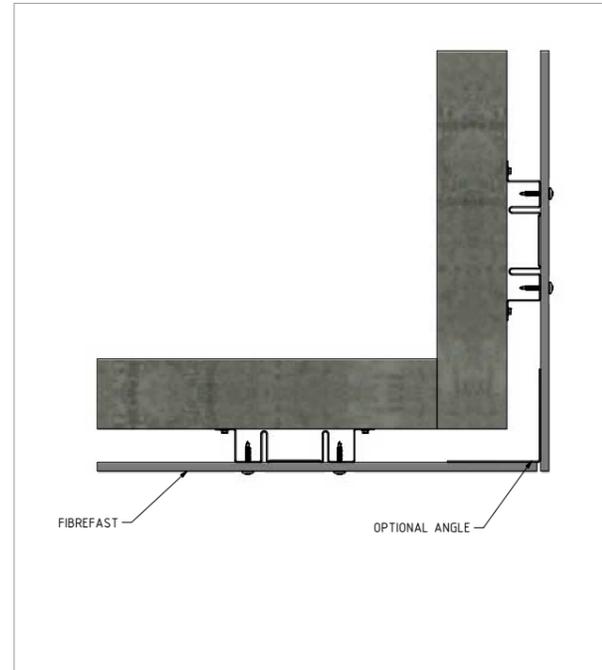
BASE DETAIL - ANTI-VERMIN ANGLE (3D)



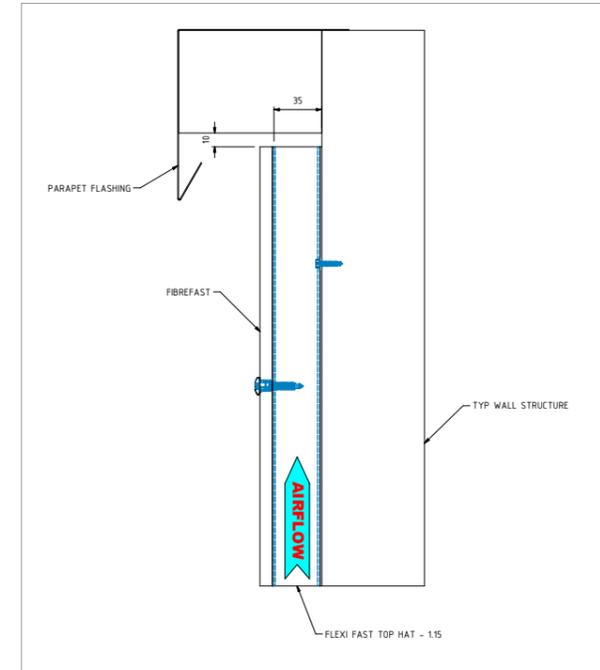
EXTERIOR CORNER - OPEN JOINT



EXTERIOR CORNER - CLOSED JOINT



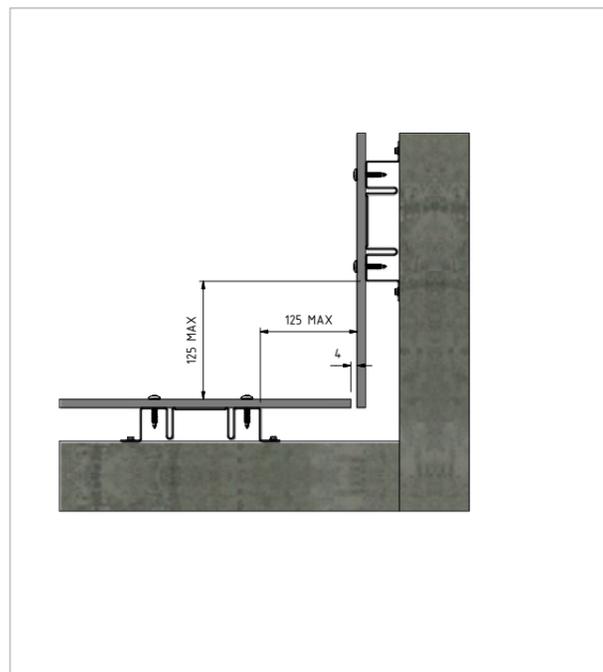
PARAPET



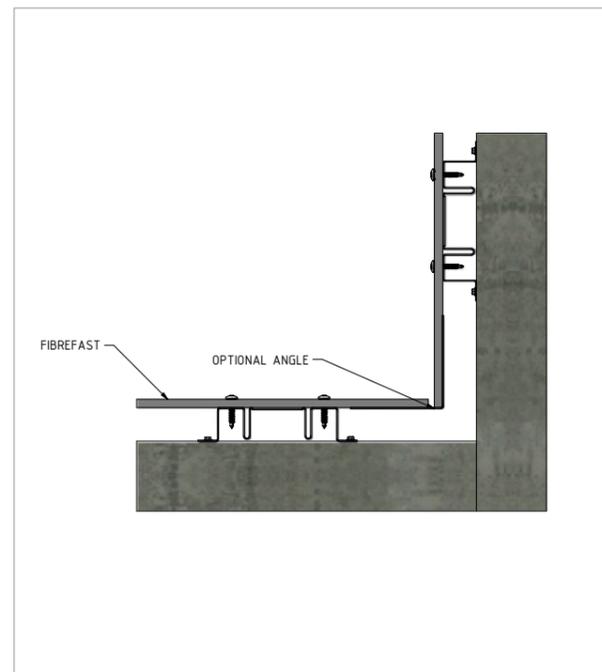
PARAPET [3D]



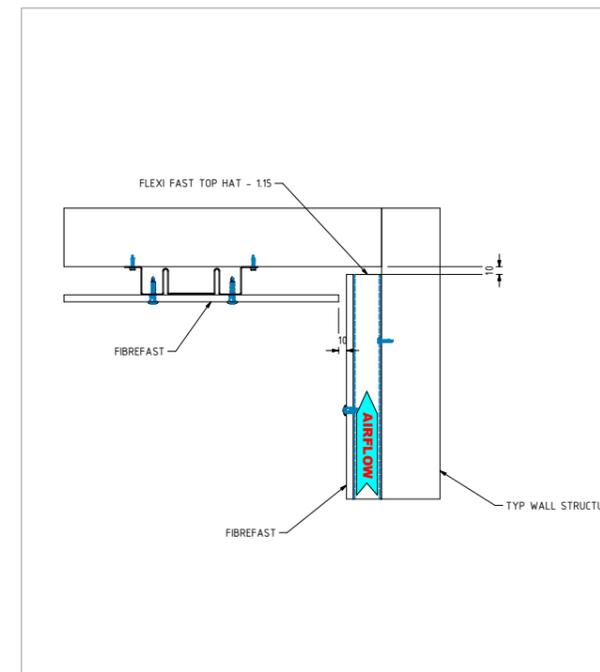
INTERIOR CORNER - OPEN JOINT



INTERIOR CORNER - CLOSED JOINT



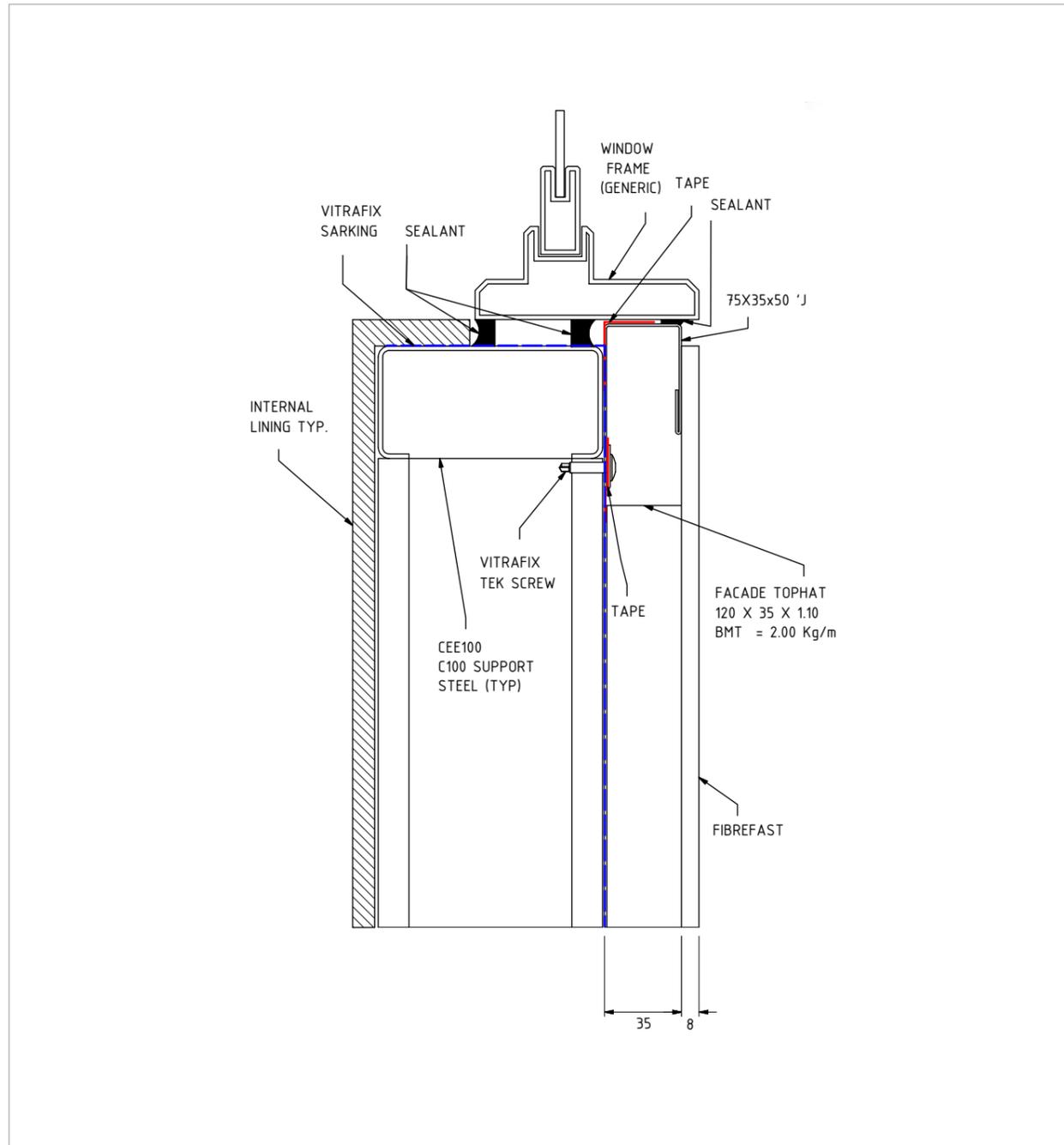
SOFFIT



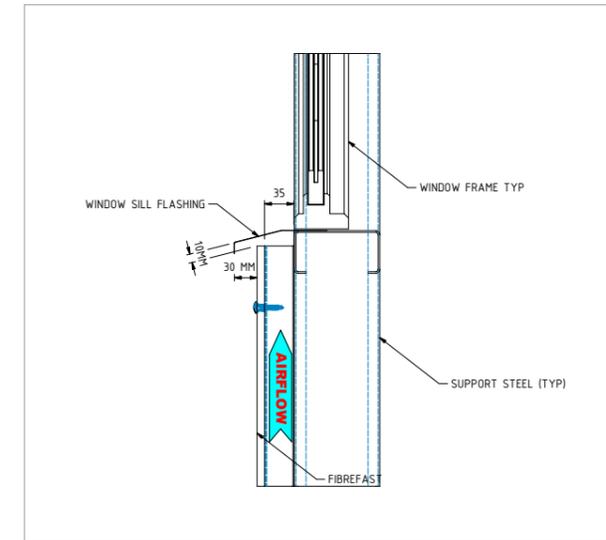
SOFFIT [3D]



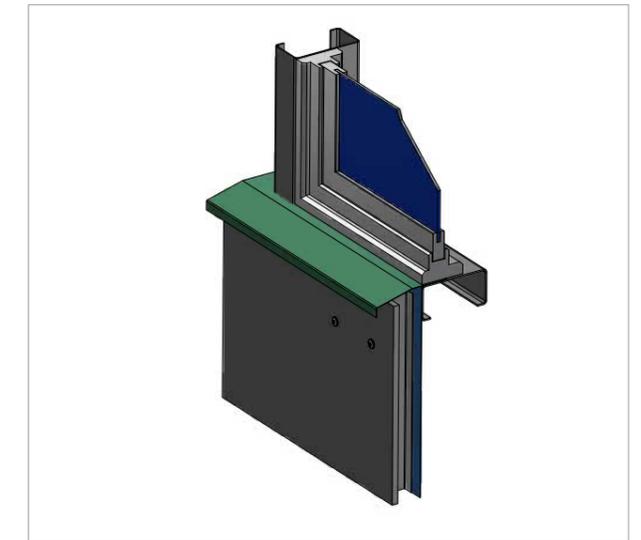
WINDOW SILL DETAIL



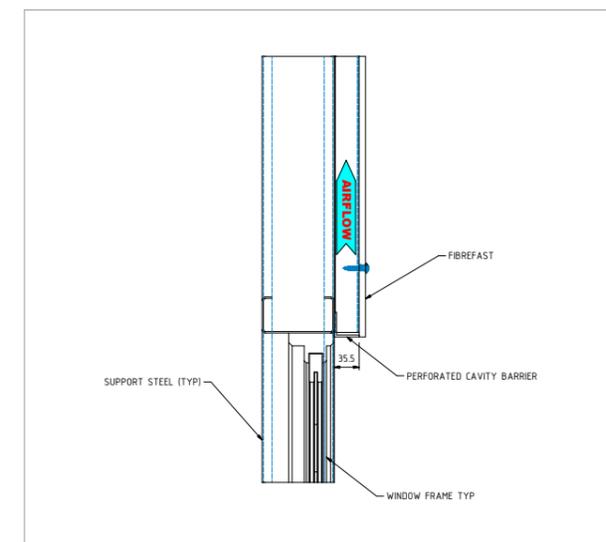
WINDOW SILL



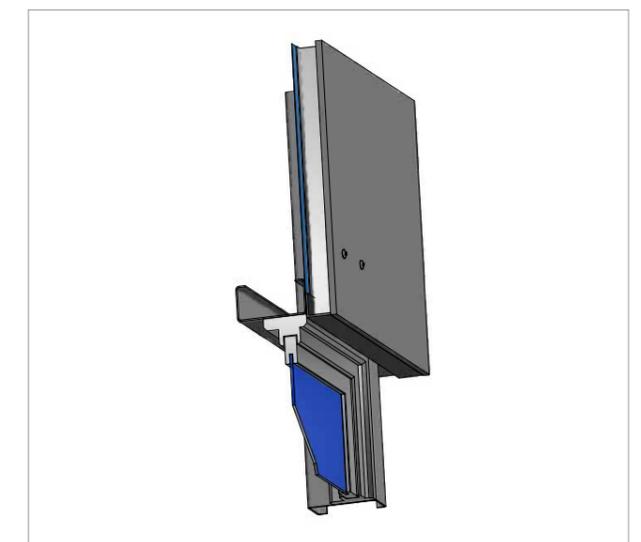
WINDOW SILL [3D]



WINDOW HEAD



WINDOW HEAD [3D]

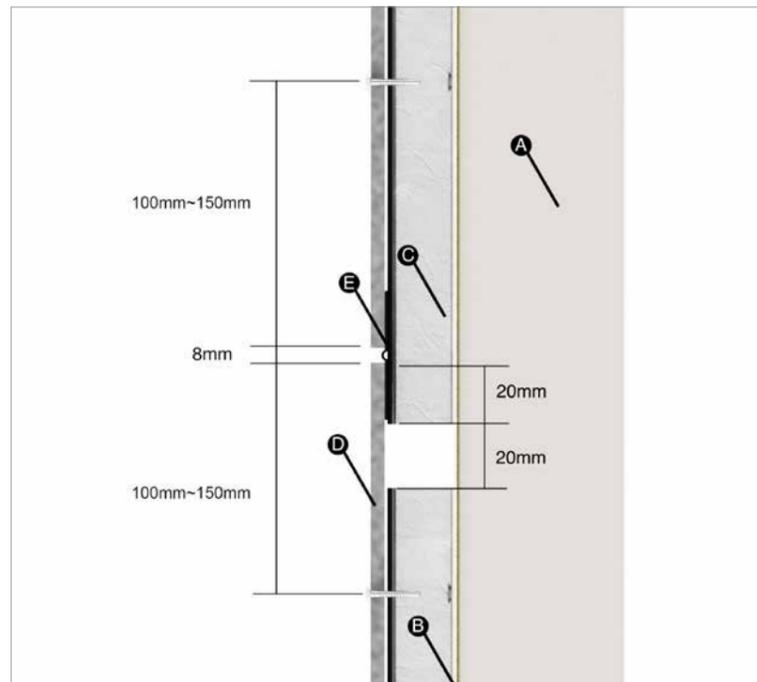


EXPANSION CLOSED JOINT



HOZONTAL JOINT

- A. Steel Framing
- B. Vitrafix Sarking
- C. Vitrafix Intermediate Top Hat
- D. Fibrefast Façade Board
- E. Fibrefast 3.5mm Back Flashing



MATERIAL PROPERTIES

FIBREFAST MANUFACTURING TOLERANCES

Length	+0 to -2mm.
Width	+0 to -2mm.
Thickness	+10% to -0%.
Diagonals Difference (max)	2mm
Edge Straightness deviation (max)	1mm

TECHNICAL DATA

TEST DETAILS- 9MM BOARD	STANDARD	RESULT
Combustibility	AS1530.3	Deemed non-combustible
Apparent density	EN 12467:2012	1.62g/cm ³
Modulus of rupture	AS2908.2-2000- Wet	Average- 14MPa Minimum- 13MPa
Modulus of elasticity	AS2908.2-2000 - Wet	Average-9007MPa Standard deviation- 1406MPa
Water permeability	AS2908.2-2000	Pass
Heat-rain	AS2908.2-2000	Pass
Bending strength	AS2908.2-2000	Requirement- ≥13 Result- 16.40
Warm water	AS2908.2-2000 - Wet	Pass Requirement- ≥0.75 Result- 0.794
Soak dry	AS2908.2-2000- Wet	Requirement- ≥0.75 Result- 0.919
Thickness	AS2908.2-2000	Average- 8.90mm

FIRE RESISTANCE

Fibrefast factory-painted fibre cement is deemed a non-combustible material in accordance with C2D10(6)(d) of the National Construction Code. When tested in accordance with AS1530.3, the Early Fire Hazard Indices are as follows:

Ignitability Index (0-20)	0
Spread of Flame Index (0-10)	0
Heat Evolved Index (0-10)	0
Smoke Developed Index (0-10)	1



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