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4.6 Weather Defence

weather defence[™] is a 13mm thick external sheathing board (also known as a rigid air barrier) which is used behind facade cladding systems to create a pressure equalised cavity. weather defence[™] forms part of the weatherproofing system for an external wall of a building and can often replace wall sarking.

weather defence[™] provides a weather resistive layer to prevent moisture ingress and excessive air leakage of a building. Installations using weather defence[™] can achieve airtightness targets that contribute to a building's energy efficiency and allow any glasswool insulation in the cavity to perform as intended by avoiding wind washing.

weather defence[™] can be left exposed to the weather for up to 12 months before being covered by external cladding.

This section includes wall systems, installation and construction details for non-fire and fire rated **weather** defence[™] external walls.

Refer to Section 3.1 and Section 3.3 for the installation of internal linings. Refer to the **weather** defence[™] Bushfire installation guide for bushfire applications.

weather defence[™] has been tested to AS/NZS 4284 Testing of building facades, and can be used wherever non-combustible materials are required by the National Construction Code (NCC).

- Tested to AS/NZS 4284 Testing of building facades with EQUITONE[®] and other cladding
- > Fully recyclable gypsum core
- > Low embodied carbon to manufacture
- Not classified as hazardous according to Safe Work Australia criteria.

Benefits

Features

- > Weather resistive (water and air) layer
- > Breathable layer (with high vapour permeability)
- > Can be left exposed for up to 12 months
- Improves external wall acoustic and thermal performance
- May be used wherever a non-combustible material is required according to NCC 2022 Volume One, C2D10 (6) (a), and Volume Two H3D2 (1) (a)
- Enclose buildings faster so the interior fitout can start sooner
- Easy to cut, shape and install without specialist cutting equipment or segregated areas.

Applications

weather defence[™] is designed to be installed on residental, multi-residential, commercial, office, health-care, education and public buildings. Typically weather defence[™] is installed on:

- > Light weight steel stud framing
- > Timber stud framing, and
- > Modular buildings.

weather defence^m is recommended for use in climate zones 2 to 8. In climate zone 1, it is recommended to apply a vapour control layer over the external surface.

Table 1 Weather Defence Properties

Properties

Fire Hazard Properties

The National Construction Code (NCC) regulates the fire hazard properties of coverings and lining materials in buildings according to NCC 2022 Volume One, C2D11. Floor linings and coverings must have a high enough critical radiant flux to comply with NCC 2022 Volume One, C2D11, while internal wall and ceiling linings must have a low enough group number. The group number indicates how quickly wall and ceiling linings spread fire, with Group 1 products ranked the slowest and Group 4 the fastest.

Table 2 Product Group Number

Product	Group Number	Average Specific Extinction Area (m²/kg)
weather defence	1	less than 250

Combustibility

weather defence[™] is a plasterboard manufactured to meet the requirements of *AS/NZS 2588:2018* -*Gypsum plasterboard*. As such, it is considered to limit the spread of fire; therefore in accordance with NCC 2022 Volume One, C2D10 (6) (a), and NCC 2022 Volume Two, H3D2 (1) (a), plasterboard may be used wherever non-combustible materials are required by the NCC.

Thermal 'R' Value

The R-Value of plasterboard is a measure of its thermal insulation ability. Higher numbers indicate a better insulator. The values* for plasterboard are:

> 13mm plasterboard = 0.076 m².K/W

*Values calculated from thermal conductivity of plasterboard listed in NCC of 0.17 W/mK

Property	Result	Reference
Vapour permeance	1.52 µg/Ns (Class 4)	AS/NZS 4100.1 and ASTM E96
Vapour resistance	0.7 MNs/g	ASTM E96
Resistance to water penetration	Pass	AS/NZS 4201.4
Resistance to mould growth	10/10 (no mould growth)	ASTM D3273

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	SSW776	 External cladding as nominated in Stud Size (mm) 70 2 layers of 13mm fireshield or n or trurock Minimum 70mm steel stud fram centres 	the 'Exterior Cladding' table Sound Insulation without extern Rw (Rw + Ctr) Pink [®] Partition 75mm 43 (33) Add (33)	FC20 nal cladding n R1.8 Fire Resist -/90/90 and rated from	Report Insul ance Level d 30/30/30 the outside
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	SSW776	 External cladding as nominated in Stud Size (mm) 2 layers of 13mm fireshield or n or trurock Minimum 70mm steel stud fram centres Minimum Pink® Partition 75mm 1 layer of 13mm weather defen External cladding as nominated in Stud Size 	the 'Exterior Cladding' table Sound Insulation without extern Rw (Rw + Ctr) Pink® Partition 75mm 43 (33) nultishield or impactshield ning at 600mm maximum n R1.8 insulation ce the 'Exterior Cladding' table Sound Insulation without extern Rw (Rw + Ctr)	FC20 nal cladding n R1.8 Fire Resist -/90/90 and rated from 90/9 rated from Rep FC20 nal cladding	Report Insul ance Level d 30/30/30 the outside 0/90 the inside port 0363
	SSW776	 External cladding as nominated in Stud Size (mm) 70 2 layers of 13mm fireshield or n or trurock Minimum 70mm steel stud fram centres Minimum Pink® Partition 75mm 1 layer of 13mm weather defen External cladding as nominated in Stud Size (mm) 	the 'Exterior Cladding' table Sound Insulation without extern Rw (Rw + Ctr) Pink [®] Partition 75mm 43 (33) nultishield or impactshield and at 600mm maximum a R1.8 insulation ce the 'Exterior Cladding' table Sound Insulation without extern Rw (Rw + Ctr) Pink [®] Partition 75mm	FC20 nal cladding n R1.8 Fire Resist -/90/90 and rated from 90/9 rated from Rep FC20 nal cladding	Report Insul ance Level d 30/30/30 the outside 0/90 the inside 0363



		and the second			
SSW784	 1 layer of 16mm fireshield or multishield or trurock 		Fire Resist	ance Level	
	Minimum 70mm steel stud framing at 600mm maximum		90/9	0/90	
	centres		rated from	the outside	
	 Minimum Pink® Partition 75mm R1.8 insulation 2 layers of 13mm weather defence External cladding as nominated in the 'Exterior Cladding' table 		nsulation 60/60/60		
			2 layers of 13mm weather defence rated from the		the inside
			Кероп		oort 0363
9	Stud Size	Sound Insulation without extern			
4	(mm)	Rw (Rw + Ctr)	-		
		Pink [®] Partition 75mm	n R1.8		
				Report	
	70	48 (40)		Insul	
SSW782	• 2 layers of 13mm fire shield or n	nultishield or impactshield	Fire Desist		
SSW782	or trurock		Fire Resist	ance Level	
SSW782	or tru rock • Minimum 70mm steel stud fram		-/120/120 ai	nd 90/90/90	
SSW782	or tru rock • Minimum 70mm steel stud fram centres	ing at 600mm maximum		nd 90/90/90	
SSW782	or tru rock • Minimum 70mm steel stud fram centres • Minimum Pink® Partition 75mm	ing at 600mm maximum R1.8 insulation	-/120/120 ai	nd 90/90/90 oth directions	
SSW782	or tru rock • Minimum 70mm steel stud fram centres • Minimum Pink® Partition 75mm • 2 layers of 13mm weather defen	ning at 600mm maximum R1.8 insulation nce	-/120/120 and rated from bo	nd 90/90/90 oth directions	
SSW782	or tru rock • Minimum 70mm steel stud fram centres • Minimum Pink® Partition 75mm • 2 layers of 13mm weather defer • External cladding as nominated in	ing at 600mm maximum R1.8 insulation nce the 'Exterior Cladding' table	-/120/120 ai rated from bc Rep FC20	nd 90/90/90 oth directions	
SSW782	or tru rock • Minimum 70mm steel stud fram centres • Minimum Pink® Partition 75mm • 2 layers of 13mm weather defen	ning at 600mm maximum R1.8 insulation nce	-/120/120 ai rated from bc Rep FC20	nd 90/90/90 oth directions	
SSW782	or tru rock • Minimum 70mm steel stud fram centres • Minimum Pink® Partition 75mm • 2 layers of 13mm weather defend • External cladding as nominated in Stud Size	ing at 600mm maximum R1.8 insulation nce the 'Exterior Cladding' table Sound Insulation without extern	-/120/120 ar rated from bo Rep FC20 nal cladding	nd 90/90/90 oth directions	
SSW782	or tru rock • Minimum 70mm steel stud fram centres • Minimum Pink® Partition 75mm • 2 layers of 13mm weather defend • External cladding as nominated in Stud Size	ing at 600mm maximum R1.8 insulation nce the 'Exterior Cladding' table Sound Insulation without extern Rw (Rw + Ctr)	-/120/120 ar rated from bo Rep FC20 nal cladding	nd 90/90/90 oth directions	
SSW782	or tru rock • Minimum 70mm steel stud fram centres • Minimum Pink® Partition 75mm • 2 layers of 13mm weather defend • External cladding as nominated in Stud Size	ing at 600mm maximum R1.8 insulation nce the 'Exterior Cladding' table Sound Insulation without extern Rw (Rw + Ctr)	-/120/120 ar rated from bo Rep FC20 nal cladding	nd 90/90/90 oth directions port 0363	
SSW782	or tru rock • Minimum 70mm steel stud fram centres • Minimum Pink® Partition 75mm • 2 layers of 13mm weather defer • External cladding as nominated in Stud Size (mm)	ing at 600mm maximum R1.8 insulation nce the 'Exterior Cladding' table Sound Insulation without extern Rw (Rw + Ctr) Pink [®] Partition 75mm	-/120/120 ar rated from bo Rep FC20 nal cladding	nd 90/90/90 oth directions Doort D363 Report	

TSW770	 1 layer of 10mm mastashield or 	water shield			
130770	• Minimum 70mm timber stud framing at 600mm maximum Fire Resistance Leve				
	centres	30/3	0/30		
	Minimum Pink® Partition 75mm	rated from th	e outside only		
C. P. Martin	• 1 layer of 13mm weather defen			oort	
	 External cladding as nominated in the 'Exterior Cladding' table 		FC2	0363	
	Stud Size Sound Insulation without externation (mm) Rw (Rw + Ctr)		nal cladding		
		Pink [®] Partition 75mm R1.8		Deset	
				Report	
	70	40 (29)		Insul	
TSW771	• 1 layer of 10mm mastashield or		Fice Decish		
	 Minimum 70mm timber stud fra centres 	ming at 600mm maximum	FILE RESISC	ance Level	
	Minimum Pink [®] Partition 75mm	R1.8 insulation		0/90 e outside only	
	• 2 layers of 13mm weather defe				
	• External cladding as nominated			oort 0363	
	table				
	Stud Size (mm)	Sound Insulation without extern Rw (Rw + Ctr)	nal cladding		
		Pink [®] Partition 75mm	n R1.8		
				Report	
	70	45 (34)		Insul	
	• 1 layer of 16mm fire shield or m	ultishield or trurock	Fire Resist	ance Level	
TSW784	 1 layer of 16mm fireshield or me Minimum 70mm timber stud fra 			ance Level	
TSW784	 1 layer of 16mm fireshield or me Minimum 70mm timber stud fra centres 		90/9	ance Level 0/90 the outside	
TSW784	• Minimum 70mm timber stud fra	ming at 600mm maximum	90/9 rated from	0/90	
TSW784	 Minimum 70mm timber stud fracentres Minimum Pink® Partition 75mm 2 layers of 13mm weather defended 	ming at 600mm maximum I R1.8 insulation nce	90/9 rated from 60/6	0/90 the outside	
TSW784	 Minimum 70mm timber stud fracentres Minimum Pink® Partition 75mm 2 layers of 13mm weather defent External cladding as nominated 	ming at 600mm maximum I R1.8 insulation nce	90/9 rated from 60/6 rated from Rep	0/90 the outside 60/60 the inside	
TSW784	 Minimum 70mm timber stud fracentres Minimum Pink® Partition 75mm 2 layers of 13mm weather defense External cladding as nominated table Stud Size 	ming at 600mm maximum R1.8 insulation nce in the 'Exterior Cladding' Sound Insulation without extern	90/9 rated from 60/6 rated from Rep FC20	0/90 the outside 50/60 the inside	
TSW784	 Minimum 70mm timber stud fracentres Minimum Pink® Partition 75mm 2 layers of 13mm weather defent External cladding as nominated table 	ming at 600mm maximum R1.8 insulation nce in the 'Exterior Cladding' Sound Insulation without extern Rw (Rw + Ctr)	90/9 rated from 60/6 rated from Reg FC20 nal cladding	0/90 the outside 60/60 the inside	
TSW784	 Minimum 70mm timber stud fracentres Minimum Pink® Partition 75mm 2 layers of 13mm weather defense External cladding as nominated table Stud Size 	ming at 600mm maximum R1.8 insulation nce in the 'Exterior Cladding' Sound Insulation without extern	90/9 rated from 60/6 rated from Reg FC20 nal cladding	0/90 the outside 60/60 the inside port 0363	
TSW784	 Minimum 70mm timber stud fracentres Minimum Pink® Partition 75mm 2 layers of 13mm weather defense External cladding as nominated table Stud Size (mm) 	ming at 600mm maximum R1.8 insulation nce in the 'Exterior Cladding' Sound Insulation without extern Rw (Rw + Ctr) Pink [®] Partition 75mm	90/9 rated from 60/6 rated from Reg FC20 nal cladding	0/90 the outside 0/60 the inside 0363 Report	
TSW784	 Minimum 70mm timber stud fracentres Minimum Pink® Partition 75mm 2 layers of 13mm weather defense External cladding as nominated table Stud Size 	ming at 600mm maximum R1.8 insulation nce in the 'Exterior Cladding' Sound Insulation without extern Rw (Rw + Ctr)	90/9 rated from 60/6 rated from Reg FC20 nal cladding	0/90 the outside 60/60 the inside port 0363	
TSW784	 Minimum 70mm timber stud fracentres Minimum Pink® Partition 75mm 2 layers of 13mm weather defent External cladding as nominated table Stud Size (mm) 70 	ming at 600mm maximum R1.8 insulation nce in the 'Exterior Cladding' Sound Insulation without extern Rw (Rw + Ctr) Pink [®] Partition 75mm 47 (34)	90/9 rated from 60/6 rated from Reg FC20 nal cladding	0/90 the outside 0/60 the inside 0363	
TSW784	 Minimum 70mm timber stud fracentres Minimum Pink® Partition 75mm 2 layers of 13mm weather defended External cladding as nominated table Stud Size (mm) 70 70 	ming at 600mm maximum R1.8 insulation nce in the 'Exterior Cladding' Sound Insulation without extern Rw (Rw + Ctr) Pink [®] Partition 75mm 47 (34)	90/9 rated from 60/6 rated from Rep FC20 nal cladding	0/90 the outside 0/60 the inside 0363 Report Insul	
	 Minimum 70mm timber stud fracentres Minimum Pink® Partition 75mm 2 layers of 13mm weather defended External cladding as nominated table Stud Size (mm) 70 2 layers of 13mm fireshield or nor trurock 	ming at 600mm maximum R1.8 insulation nce in the 'Exterior Cladding' Sound Insulation without extern Rw (Rw + Ctr) Pink [®] Partition 75mm 47 (34)	90/9 rated from rated from Rep FC20 hal cladding n R1.8	0/90 the outside 50/60 the inside 0363 Report Insul	
	 Minimum 70mm timber stud fracentres Minimum Pink® Partition 75mm 2 layers of 13mm weather defended External cladding as nominated table Stud Size (mm) 70 70 	ming at 600mm maximum R1.8 insulation nce in the 'Exterior Cladding' Sound Insulation without extern Rw (Rw + Ctr) Pink [®] Partition 75mm 47 (34)	90/9 rated from rated from Rep FC20 nal cladding n R1.8	0/90 the outside 50/60 the inside 0363 Report Insul	
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	 Minimum 70mm timber stud fracentres Minimum Pink® Partition 75mm 2 layers of 13mm weather defended External cladding as nominated table Stud Size (mm) 70 2 layers of 13mm fireshield or more trurock Minimum 70mm timber stud fracentres Minimum Pink® Partition 75mm 2 layers of 13mm weather defended 	ming at 600mm maximum R1.8 insulation nce in the 'Exterior Cladding' Sound Insulation without extern Rw (Rw + Ctr) Pink [®] Partition 75mm 47 (34) A7 (34) nultishield or impactshield ming at 600mm maximum R1.8 insulation nce	90/9 rated from 60/6 rated from Rep FC20 nal cladding n R1.8 Fire Resist 90/9 rated from book Rep	0/90 the outside 50/60 the inside 0363 Report Insul	
	 Minimum 70mm timber stud fracentres Minimum Pink® Partition 75mm 2 layers of 13mm weather defended External cladding as nominated table Stud Size (mm) 70 2 layers of 13mm fireshield or nor trurock Minimum 70mm timber stud fracentres Minimum Pink® Partition 75mm 2 layers of 13mm weather defended 	ming at 600mm maximum R1.8 insulation nce in the 'Exterior Cladding' Sound Insulation without extern Rw (Rw + Ctr) Pink® Partition 75mm 47 (34) A7 (34) nultishield or impactshield ming at 600mm maximum R1.8 insulation nce the 'Exterior Cladding' table	90/9 rated from 60/6 rated from Rep FC20 nal cladding n R1.8 Fire Resist 90/9 rated from bo Rep FC20	0/90 the outside 50/60 the inside 50/60 Report Insul ance Level 0/90 oth directions	
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• 1 layer of 10mm mastashield or watershield

Typical Installation



FIGURE 1 Typical Weather Defence Installation Perspective

Weathertightness

The construction details shown are limited to the approved wind pressure limits of the choosen cladding system. The cladding details shown are to be used as a guide only, and tested details of a cladding manufacturer should take precedence.

weather defence[™] has been tested with EQUITONE[®] to AS/NZS 4284 Testing of building facades for the purpose of compliance with NCC 2022 F3P1 and H2P2 to the following wind pressures:

- > Ultimate wind pressure ± 4.5 kPa
- Serviceability wind pressure ± 2.5 kPa

Although **weather** defence[™] has been tested to AS/NZS 4284 with Equitone and other cladding, a facade engineer is required to generate a performance solution for any external facade in Class 2-9 builings.

Components

Name	Thickness (mm)	Width (mm)	Length (mm)	Weight (kg/m²)	Properties
weather defence™	13	1200	2400	11.7	



Product Code	Box screw
4084645	1000 screws

FIGURE 2 6g x 38mm Weather Defence Screw Fine thread drill point screw



Product Code	Box screw
4084646	1000 screws

FIGURE 3 6g x 42mm Weather Defence Screw Coarse thread needle point screw



Product Code	Length	Width
13206	30 m	60 mm
13280	30 m	100 mm
14891	30 m	150 mm

FIGURE 4 Pro Clima Tescon Extora® Flashing Tape - (Supplied by Pro Clima)



Product Code	Length	Width
14152	20 m	150 mm
14156	20 m	200 mm

FIGURE 5 Pro Clima Tescon Extoseal® Sill Tape - (Supplied by Pro Clima) Note: Can be used as a substitute for Tescon Extora® Flashing Tape



Wet Seal Connection Tape may be omitted as long as sealant manufacturer can confirm compatibility with Pro Clima's Tescon Extora® and Tescon Extoseal®

Product Code	Length	Width
16849	30 m	38 mm

FIGURE 6 Pro Clima Tescon® WS

Wet Seal Connection Tape - (Supplied by Pro Clima)



Product Code	Length	Width	
13599	20 m	50 mm	

FIGURE 7 Pro Clima Tescon® Naideck Double sided self sealing strip (Supplied by Pro Clima)



General Requirements

Install control joints in **weather** defence[™] walls:

- > At every slab level
- > At all control joints in the structure
- > At any change in the substrate

Jointing of **weather** defence[™] is not required.

Protect weather defence[™] from water pooling at ground level.

Avoid gaps in cladding that let sunlight though as the flashing tape may degrade over time.

Attach top hats or other cladding framing through **weather** defence[™] to the structural frame.

Attach all fixtures to studs, purpose installed noggings or blocking. Wall anchors or screws must not be fixed only to **weather** defence[™].

For multiple layer wall systems, the underlying layer of **weather** defence[™] may be substituted with **multi**shield.

Framing



FIGURE 8 Typical External Steel Frame Wall Layout Perspective

Framing continued

Steel framing members up to 600mm maximum spacing and designed in accordance with AS/NZS 4600 Cold formed steel structures or NASH Standard for Residential and Low-rise steel framing.

Timber framing members up to 600mm maximum spacing and designed in accordance with AS 1720 Timber structures or AS/NZS 1684 Residential timber framed construction.

Structural wall designs must allow for the intended dead, live, wind and seismic loads in accordance with the AS/NZS 1170 series.

- Noggings are permitted to assist the fixing of services. Copper Chromium Arsenate (CCA) treated timber must not be used with steel framing.
- Plumbing and electrical services must not protrude beyond the face of the studs.

Layout

Preferably, install **weather** defence[™] boards with a 0-2mm gap around each sheet. Gaps of 10mm maximum between boards are permitted.

Horizontal Layout

Install **weather** defence[™] boards horizontally across studs in a 'brick bond' pattern.

Curving

Minimum curve radius is 4m with 400mm maximum stud spacing. Note: smaller stud spacing may be required for wind loads.

Fix flat plate to studs corresponding with all horizontal board joints.

Fixing

Use Siniat **weather** defence[™] screws to fix **weather** defence[™] board to external wall framing.

Drive screws to just below the sheet surface, taking care not to break the fleece liner. For over-driven screws, install another screw 20mm away. Leave or remove the over-driven screw and patch with Pro Clima Tescon Extora® tape.

Use the 'Screw Only Method'. Stud adhesive is not permitted.

WEATHER DEFENCE

Cover screws with flashing tape for corrosivity zones C4 and C5 unless covered with wall wrap.



Plan

Table 3 Screw Type for the Installation of weather defence™ to Steel

Plasterboard Thickness	1st Layer and 2nd Layer
13mm	6g x 38mm fine thread drill point weather defence™ screw

Table 4 Screw Type for the Installation of weather defence™ to Timber

Plasterboard Thickness	1st Layer and 2nd Layer
13mm	6g x 42mm coarse thread needle point weather defence [™] screw



FIGURE 10 1 Layer - Horizontal Screw Only Method

Maximum Ultimate Limit State Wind Load Table (kPa)

Fixing Pattern	Maximum Wall Stud Spacing			
	600mm	450mm	400mm	300mm
S S S S S (5)	1.31	1.74	1.96	2.62
S S S S S S (6)	1.64	2.18	2.46	3.28
S S S S S S S (7)	1.95	2.62	2.95	3.93
S S S S S S S S (8)	1.95	3.08	3.47	4.63

S = Screw. Screws evenly spaced along sheet width and located 10 - 25mm from sheet edges.

1. Calculations do not include the framing which must be independently designed to suit the desired loads.

2. If higher wind pressures are expected, please contact Siniat for specific design.



FIGURE 11 2 Layers - Horizontal + Horizontal Screw Only Method

Maximum Ultimate Limit State Wind Load Table (kPa)

Fixing Pattern	Maximum Wall Stud Spacing			
	600mm	450mm	400mm	300mm
S S S S S (5)	1.31	1.74	1.96	2.62
S S S S S S (6)	1.64	2.18	2.46	3.28
S S S S S S S (7)	1.95	2.62	2.95	3.93
S S S S S S S S (8)	1.95	3.08	3.47	4.63

S = Screw. Screws evenly spaced along sheet width and located 10 - 25mm from sheet edges.

1. Calculations do not include the framing which must be independently designed to suit the desired loads.

2. If higher wind pressures are expected, please contact Siniat for specific design.



Sealing

weather defence[™] and other adjoining surfaces must be clean, dry and free of oil, dust and other particles or chemicals that could cause poor adhesion of tapes – contamination will impair adhesion.

Check the Pro Clima product data sheets for further information on Tescon Extora®, Tescon Extoseal® and Tescon Naideck®.

Starting at the bottom of the wall, apply Pro Clima Tescon Extora® tapes over the face layer of **weather** defence[™] and other adjoining surfaces as shown in the construction details. Tapes must overlap joints in **weather** defence[™] by 20mm minimum.

Apply with joint running along the centre of the tape – this will usually cover screw fixings. Peel backing paper from the tape as the operation progresses.

Apply without wrinkles or excessive tension in the tape. Firmly press, and smooth against **weather** defence[™], running over the tape with the applicator paddle to ensure adhesion.

Stop and start horizontal tapes around internal and external corners.

Adjoining tapes must overlap so water is directed away from **weather** defence[™] and into the drained cavity.

Minimise the number of pieces of tape used to reduce the risk of gaps. Overlap tape ends by 100mm minimum where multiple pieces have to be used. Ensure overlaps are pressed firmly against board and fully sealed.

Patch tapes with additional 150mm pieces perpendicular to the original tape, rather than removing strips from **weather** defence[™] and risking damage to the glass fibre based fleece.

Apply Pro Clima Tescon Extoseal® tapes around openings as shown in the construction details.

Pro Clima Tescon tapes are limited to an exposure period of 6 months. Tapes may be reapplied within the twelve months exposure period overlaping the top edge of the underlying tape so as to channel water away from the surface.

Where high levels of rain and airtightness are required, it is advised to use a hose to lightly spray water over the wall or openings to identify holes or gaps. If any gaps are present, then a re-application of the tapes / sealant will be required. Please note that applying water at high pressure or saturating will drive moisture into even the most tightly sealed installations. High pressure water testing must only be conducted after the installation of the external cladding.

Таре	Application
Tescon Extora® 60mm	Jointing
Tescon Extora® 100mm	Vertical control joints, internal and external corners, sides and top of openings
Tescon Extoseal® 150mm	92mm window / door openings
Tescon Extoseal® 200mm	150mm window / door openings
Tescon [®] Naideck 50mm	For under external cladding framing and under screws
Tescon® WS	For under sealant around external openings

Table 5 Application of Pro Clima products

$\widehat{\mathbf{W}}$

Before Enclosing

Inspect **weather** defence[™] boards for any damage prior to closing off the sheathing layer and after extreme weather.

Minor damage to **weather** defence[™] can be repaired with the application of suitably sized pieces of Pro Clima Tescon Extora[®] or Extoseal[®] tapes that overlap the damage by 50mm minimum in all directions.

More extensive damage may require the replacement of the damaged section with a piece of **weather** defence[™] board cut to size and Pro Clima Tescon Extora[®] tape applied to all horizontal and vertical joints. Back all joints with framing and fix with **weather** defence[™] screws at 100mm maximum spacing.

Exterior Cladding

	Fire Rated
The following cladding sheets or planks are not considered detrimental to the FRL of the wall:	
> Innova fibre cement	
> Equitone fibre cement	
> Glass-fibre reinforced cement aggregate board	
> Wood or timber	
> Steel	\checkmark
> Aluminium	
> PVC	
> Rendered polystyrene	
> Cladding fixed and supported independently of the wall.	
For class 2 to 9 buildings, also refer to NCC Volume One Section C, CP2 Spread of fire requirements.	
Fix cladding or cladding top hats to the steel frame through weather defence™.	\checkmark

> Exterior cladding must provide protection from the weather once installed.

> Use construction techniques that direct condensation and rain away from plasterboard.

- > Siniat recommends a drained cavity between the external cladding and weather defence[™] for weathertightness and durability.
- > Top hats or cladding battens between external cladding and weather defence[™] do not change the FRL of the system.
- Horizontal and vertical top hats are shown in system images as an option to provide a drained and vented cavity as well as meet the NCC thermal break requirements. Alternatively, use a thermal break strip with insulated value R0.2 between the steel stud framing and external cladding.







FIGURE 21 Wall to Concrete Column Detail

FIGURE 22 Wall to Concrete Column Detail Plan

Plan





FIGURE 25 Wall Base to Concrete Slab Section



FIGURE 28 Wall Head and Base over Suspended Slab Section FIGURE 29 Wall Head and Base over Suspended Slab* Section

Non-Fire Rated Construction Details



FIGURE 31 Facade Structural Support* Section









FIGURE 36 Alternative Flashing Tape Around Openings Perspective





FIGURE 37 Electrical Box Detail Example Detail Section



Non-Fire Rated Construction Details

Details are based on testing with EQUITONE[®] cladding to pass AS/NZS 4284 Testing of building facades











Fill any additional gaps with

 $\mathbf{(i)}$

Plan

Plan







FIGURE 56 Wall Head and Base over Suspended Slab Section FIGURE 57 Wall Head and Base over Suspended Slab* Section





