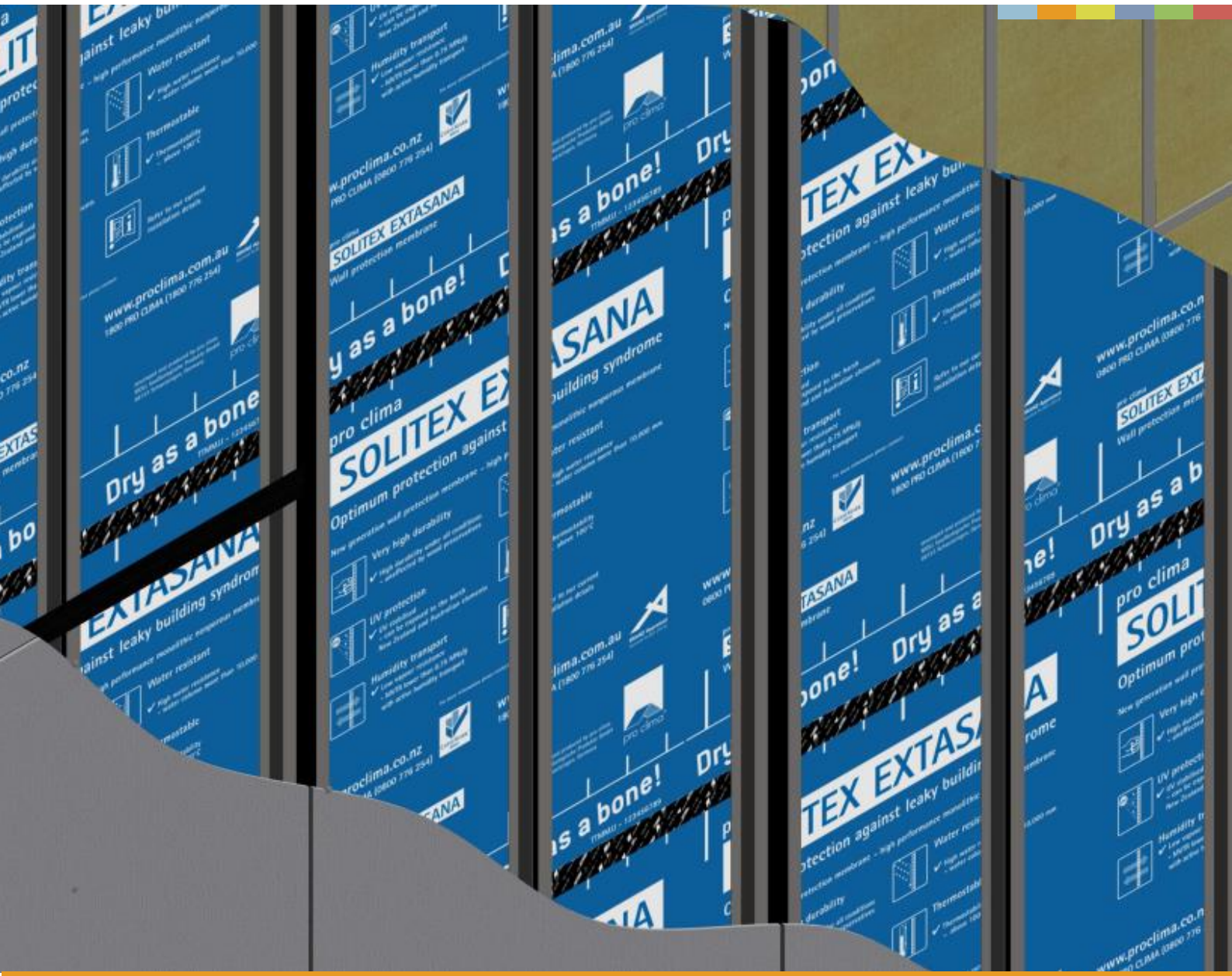
SOLITEX EXTASANA®

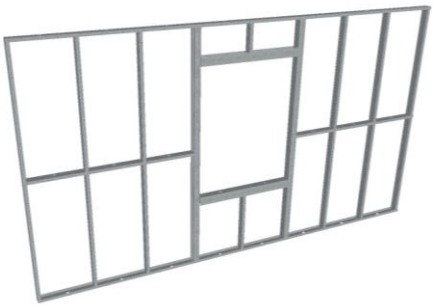
Application & Fixing Guide – Metal Frame



Weather Resistive Barrier for EQUITONE Fully Ventilated Façade System

EQUITONE

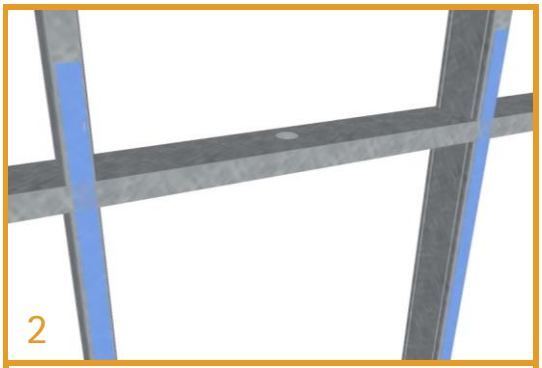
pro clima®



1

Preparing Metal Framing

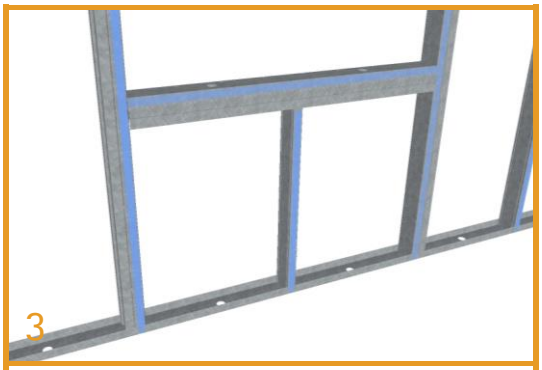
Clean all sharp edges and burrs from the steel framing to ensure the membrane will not be damaged during installation or in service.



2

Fixing using pro clima DUPLEX

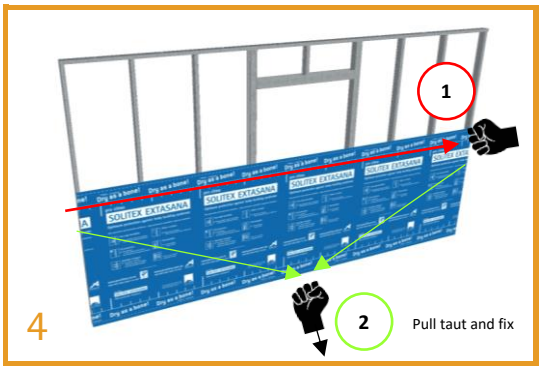
Apply DUPLEX double-sided tape to the studs at suitable intervals to temporarily hold the membrane depending on site wind conditions.



3

Window Reveals – pro clima DUPLEX

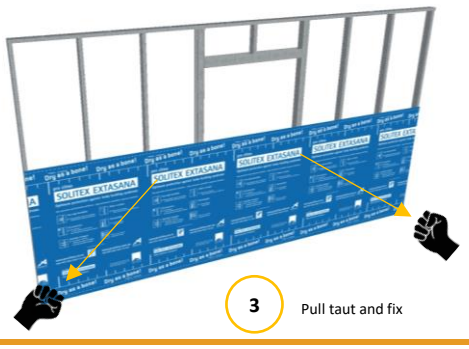
Ensure DUPLEX is applied to the full front perimeter of the window reveals. Remove the backing paper from the DUPLEX.



4

Aligning SOLITEX EXTASANA®

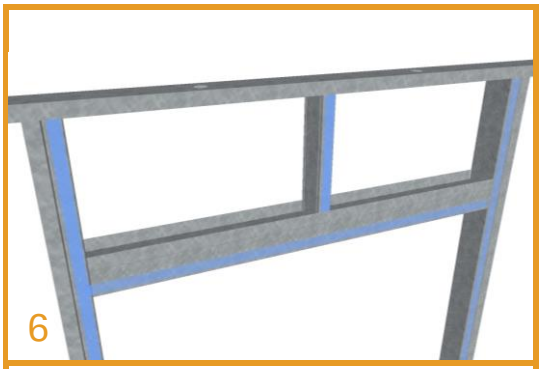
(1) Pull the membrane taut along the top edge adhering to DUPLEX as you go. (2) Adhere the bottom edge at the centre while applying tension.



5

Setting in SOLITEX EXTASANA®

(3) Pull taut and adhere the bottom corner to the pro clima DUPLEX. Apply moderate pressure with the PRESSFIX tool to ensure bonding to DUPLEX.



6

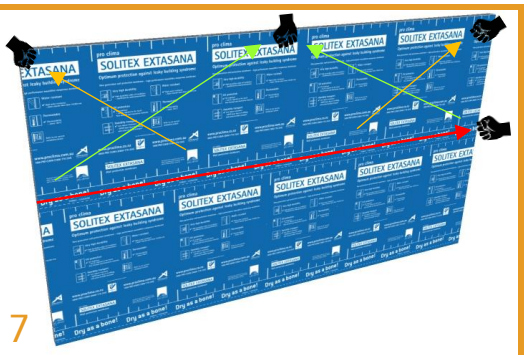
Successive Layers of SOLITEX EXTASANA®

Apply pro clima DUPLEX to accommodate the next layer of SOLITEX EXTASANA®. Pay particular attention to create full continuity around reveals.

IMPORTANT

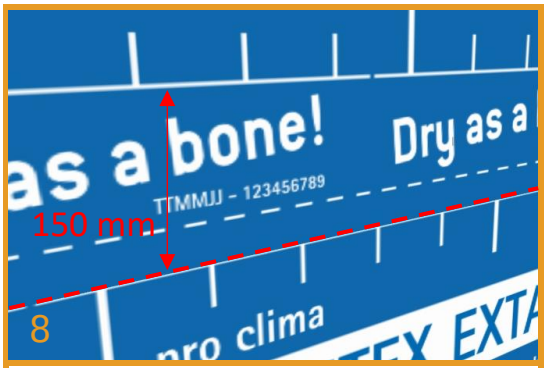
DUPLEX double sided tape is not intended to provide long term fixing but is an installation aid to hold the membrane in place until the façade mounting system is in place.

Membrane should be pulled taut to ensure TESCON® EXTORA tape can be easily installed and adequate pressure applied using the PRESSFIX tool.



Successive Layers of SOLITEX EXTASANA®

Apply successive layers of SOLITEX EXTASANA® using a upside down sequence ensuring adequate force is applied to adhere the membrane with slight tension.

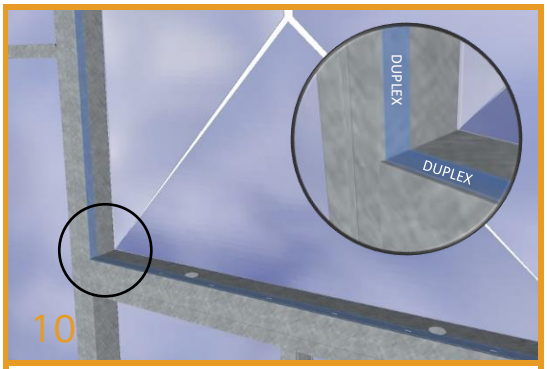


Overlapping SOLITEX EXTASANA®

The membrane shall be overlapped 150 mm. The white line represents the 150 mm overlap line and can be used as guidance to align successive layers.

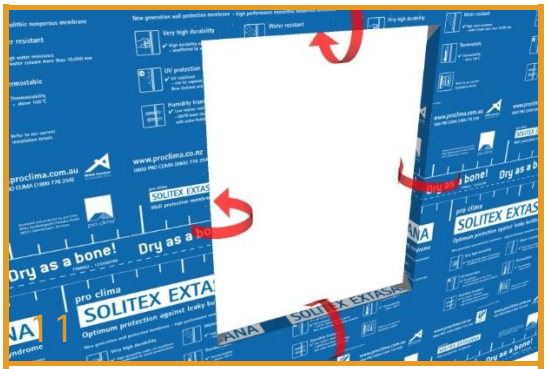
Window Reveal Dressing

Cut the membrane at window reveals with 45° angle cuts forming 4 flaps to be dressed into the reveal.



Prepping the Reveals

The flaps should be fixed into the window reveal using pro clima DUPLEX placed at the rear edge of the window reveal.



Folding the Reveals

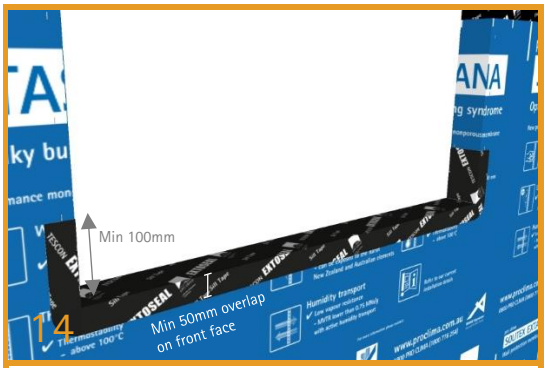
Fold the SOLITEX EXTASANA® flaps back into the reveals cutting the flaps flush with the back edge of the metal framing.

Connections using TESCON EXTORA® Flashing tape

Apply at minimum TESCON EXTORA® 100 mm to the horizontal joints with 50 mm onto each side of the joint.

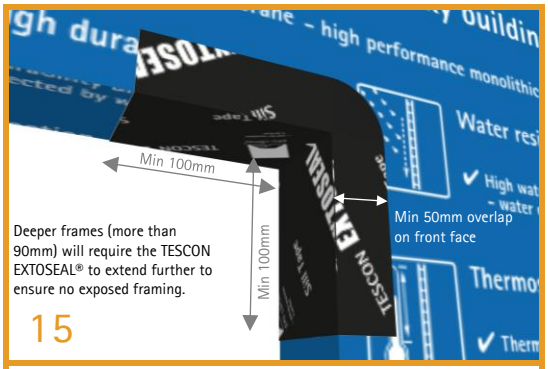
Sill Flashing – TESCON EXTOSEAL®

Exposed framing at corners of the sill needs to be covered with TESCON EXTOSEAL® Sill Tape to prevent any leaks around windows entering the framing.



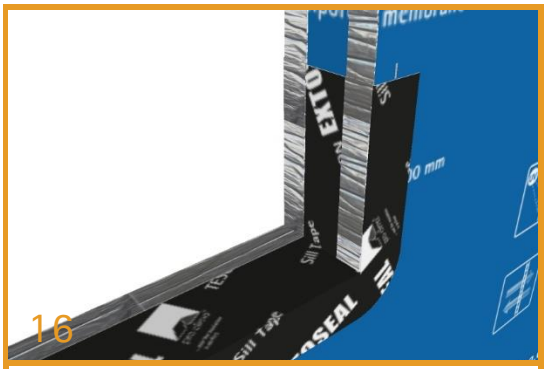
Applying TESCON EXTOSEAL® Sill Tape

TESCON EXTOSEAL® Sill Tape should extend minimum 100mm up the jambs. The corners of the TESCON EXTOSEAL® are stretched & adhered into place.



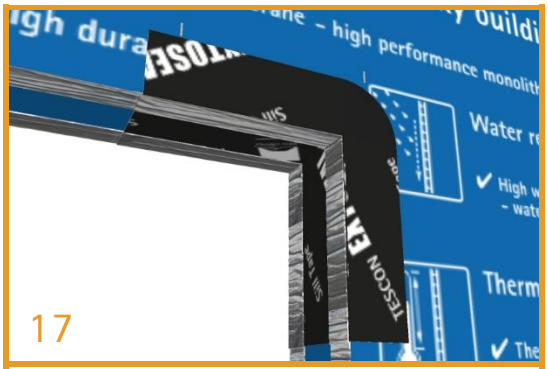
Window Corner Seal With TESOCN EXTOSEAL®

At corners TESCON EXTOSEAL® should extend at least 100mm in each direction. For wider frames the 200mm wide TESCON EXTOSEAL® should be used.



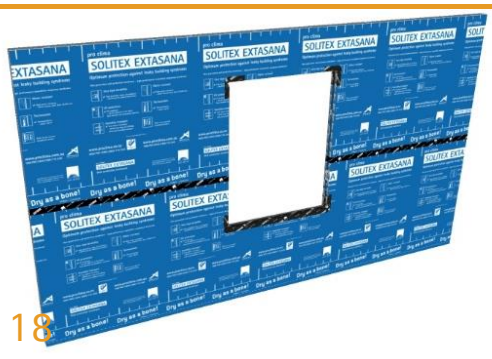
Window Wet Seals – Front Seal

TESCON® ADHISO WS is applied to the jambs and header to align with the front wet seal according to the window detailing.



Continuous TESCON® ADHISO WS

TESCON® ADHISO WS back seal should be continuous around the entire window. The front seal will be continuous on the jambs and header only.



Basic Install Completed Around Openings

SOLITEX EXTASANA®, TESCON EXTORA® and TESCON EXTOSEAL® form a continuous system. Any damage or tears should be patched with TESCON EXTORA®.

IMPORTANT

The PRESSFIX tool MUST be used to apply pressure to TESCON EXTORA®, TESCON EXTOSEAL® and TESCON® ADHISO WS after application to ensure the glue is activated and can reach maximum hold strength.

TESCON® ADHISO WS ensures a surface suitable for adhesion of sealants compatible with aluminum.

PRESSFIX is a malleable plastic tool for applying pressure to pro clima Adhesive Tapes to ensure long term durable bonding.

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Internal Corners
Special attention to ensure that curved corners do not occur.

20

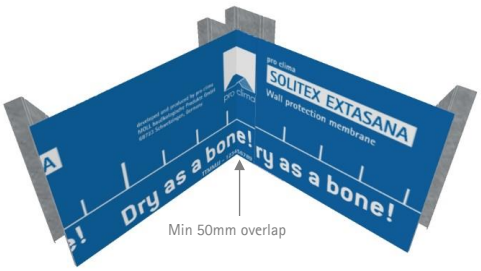
Corner Connections
Connecting SOLITEX EXTASANA® in the corner can prevent the risk of short corners. Cut flush with the stud.

21

Apply Membrane to Faces
Each face of the building should be treated with a new piece of SOLITEX EXTASANA® and can be connected in the corner to prevent curved corners.

22

Abutting Membrane at Corners
The second piece should be cut long enough to extend >50 mm around the corner. A strip of pro clima DUPLEX can be used to hold the flap in place.

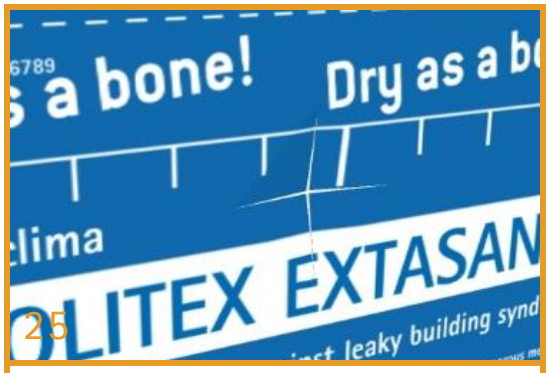


23

Setting the Corner
Pro clima PRESSFIX tool should be used to ensure the membrane is pushed hard into the corner and adhered to the DUPLEX and pressure applied with PRESSFIX.

24

Taping the Corner
TESCON EXTORA® 100mm should never be applied directly in the corner. The connection should be made on a flat section of wall just away from the corner.



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Cutting for Penetrations
Four slits are made in horizontal and vertical axis only large enough to fit the diameter of pipe.

26

Push Pipe Through
The pipe is pushed through and opens up the tabs. Trim the tabs to allow for ROFLEX and TESCON EXTORA® application.

27

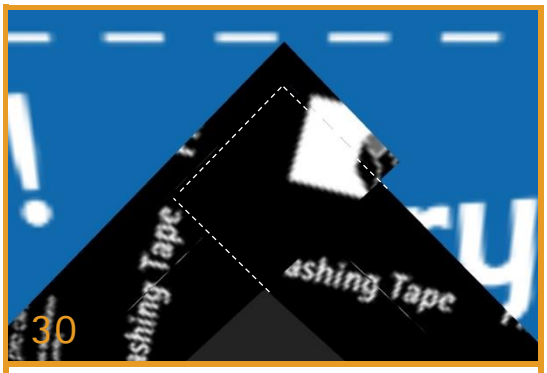
Fitting ROFLEX
Place ROFLEX over the pipe in a diamond orientation. It should be a tight fit over the pipe. The pipe should be smooth and clean.

28

TESCON EXTORA® Application
Start to apply TESCON EXTORA® 60 mm width at the bottom edge and apply pressure with the PRESSFIX tool.

29

TESCON EXTORA® Application
Apply TESCON EXTORA® around the whole grommet working anti-clockwise to ensure the top layers overlap the lower layers.



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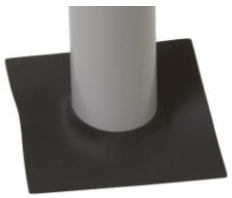
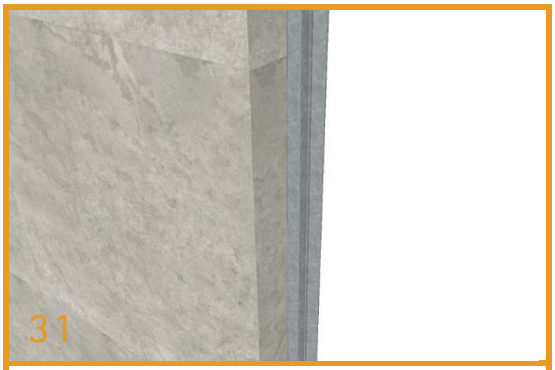
TESCON EXTORA® Application
At the TESCON EXTORA® tape overlaps ensure the top layer fully covers the end of the TESCON EXTORA® layer below for optimum weathertightness.

IMPORTANT

ROFLEX grommets come in various sizes and it is important the correct size for the pipe is selected and installed to ensure a weathertight seal.



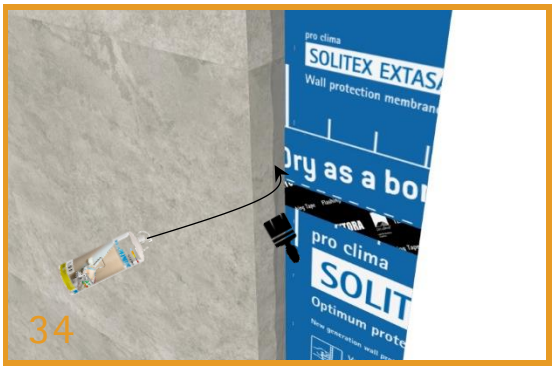
ROFLEX
Sealing grommet made of strong and highly flexible EPDM for rapid and permanent weathertight feedthroughs for pipes.



Abutment
Where SOLITEX EXTASANA® meets dissimilar wall types (concrete or masonry) a butt joint is formed.

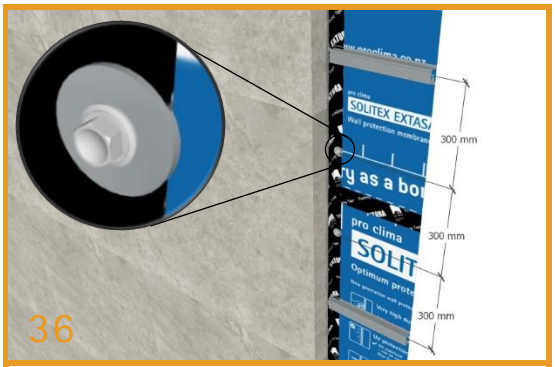
Membrane Butt Joint
SOLITEX EXTASANA® shall be adhered to the studs using DUPLEX and cut in the corner flush with the stud.

Membrane Overlaps
Membrane overlaps can be made ensuring 150mm overlap.

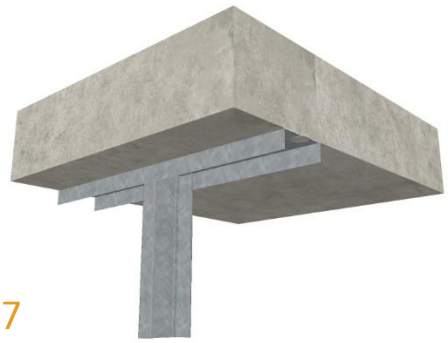


TESCON EXTORA® Overlap
TESCON EXTORA® shall be applied firmly pressed with PRESSFIX. TESCON® PRIMER RP shall be applied with a brush to any porous masonry surfaces.

Weatherproof Seal
TESCON EXTORA® 100 mm is applied by pressing into the corner with the PRESSFIX. Attention to ensure the tape does not protrude further than the cladding.



Mechanical Fixing
If SOLITEX EXTASANA® is not supported at the last stud with a vertical top hat then mechanical fixings are required at max. 300 mm centers (see 48 & 49).



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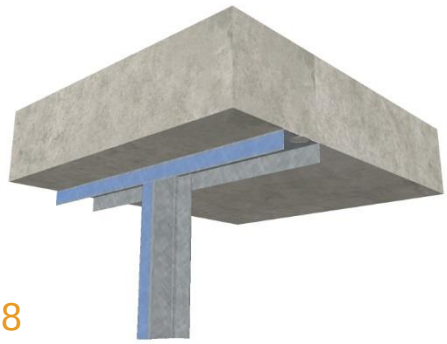
Soffit Junctions

SOLITEX EXTASANA® butt joints are created at top plates of any infill walls into any type of concrete, masonry or timber soffits.



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Fixing SOLITEX EXTASANA®

SOLITEX EXTASANA® is held in place using pro clima DUPLEX.

39

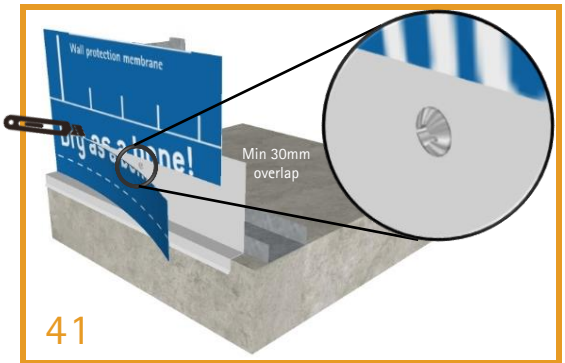
Preparing the Corner

The SOLITEX EXTASANA® is cut flush with the soffit. Porous concrete or masonry may need to be primed with TESCON® PRIMER RP using a brush.

40

Weatherproof Seal

TESCON EXTORA® 100 mm is applied by pressing into the corner with the PRESSFIX. Attention to ensure the tape does not protrude further than the cladding.



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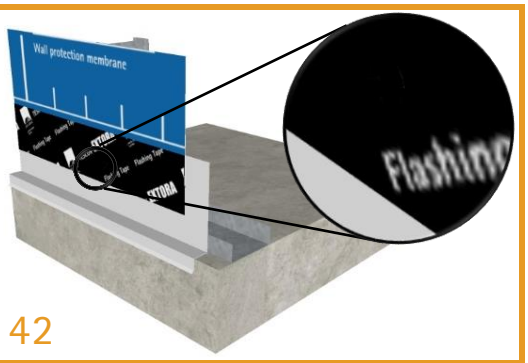
Base Detail

SOLITEX EXTASANA® trimmed to overlap onto the bottom flashing as per EQUITONE detail. The flashing is fixed with self-tapper just below the membrane.



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Mechanical Fixing Sealing

The screw heads are effectively sealed when the TESCON EXTORA® 100 mm tape is sealed to the flashing using the PRESSFIX tool.

IMPORTANT

TESCON® PRIMER RP is a primer that penetrates into the sub-surface of porous substrates locking up loose particles and creating a highly adhesive substrate for the TESCON EXTORA® tape to be applied. TESCON EXTORA® can be applied while the TESCON® PRIMER RP is still tacky or fully dry.

TESCON® PRIMER RP
Applied to substrates to prepare for optimum adhesion such as concrete, masonry, timber, fibre cement, plywood, oriented strand board (OSB), and other porous or friable surfaces prior to application of TESCON EXTORA®.

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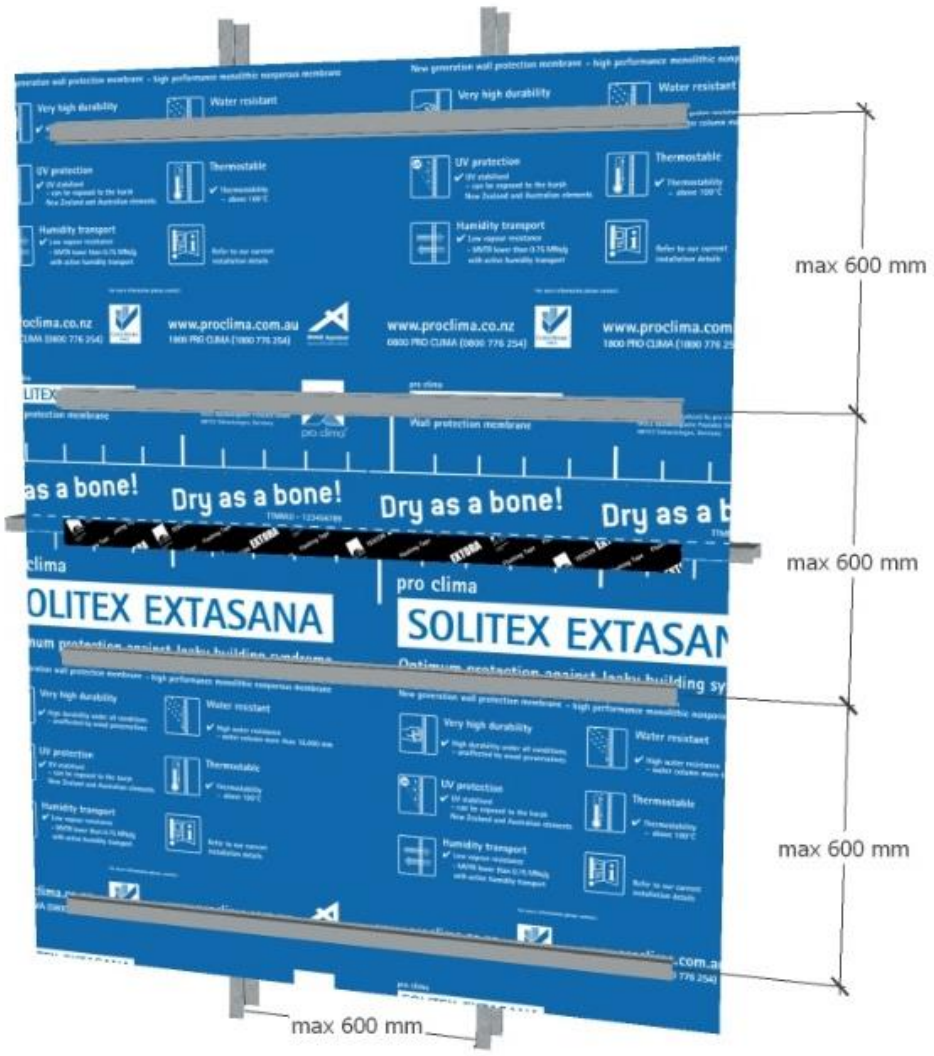
Vertical Rails 600 mm

Installed vertically to the stud wall, top hats spaced at maximum 600 mm are suitable to hold SOLITEX EXTASANA® up to the serviceability limits defined by EQUITONE with no additional fixings.



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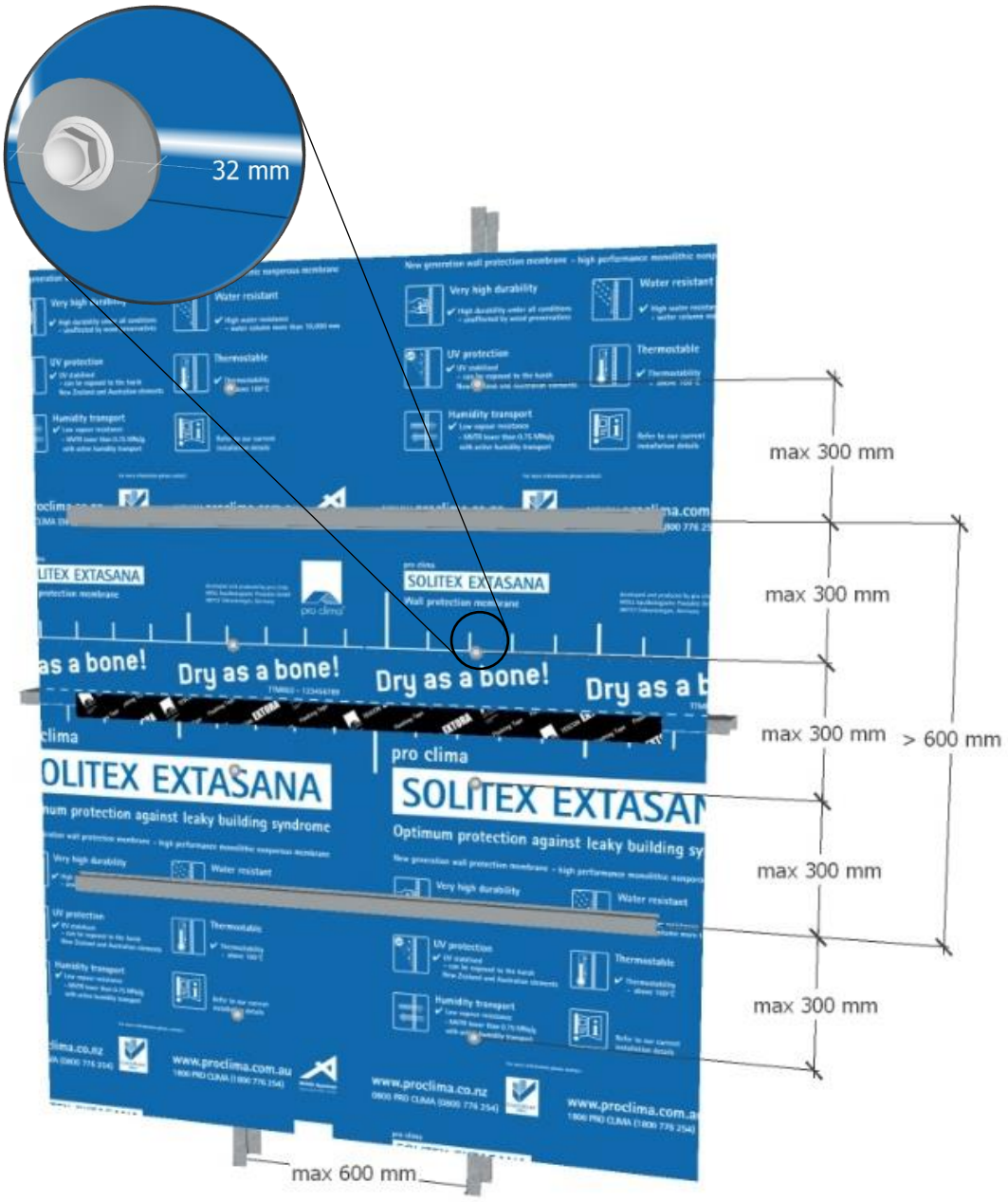
Horizontal Rails 600 mm

Installed horizontally over the studs, top hats spaced at maximum 600 mm are suitable to hold SOLITEX EXTASANA® up to the serviceability limits defined by EQUITONE with no additional fixings.

IMPORTANT

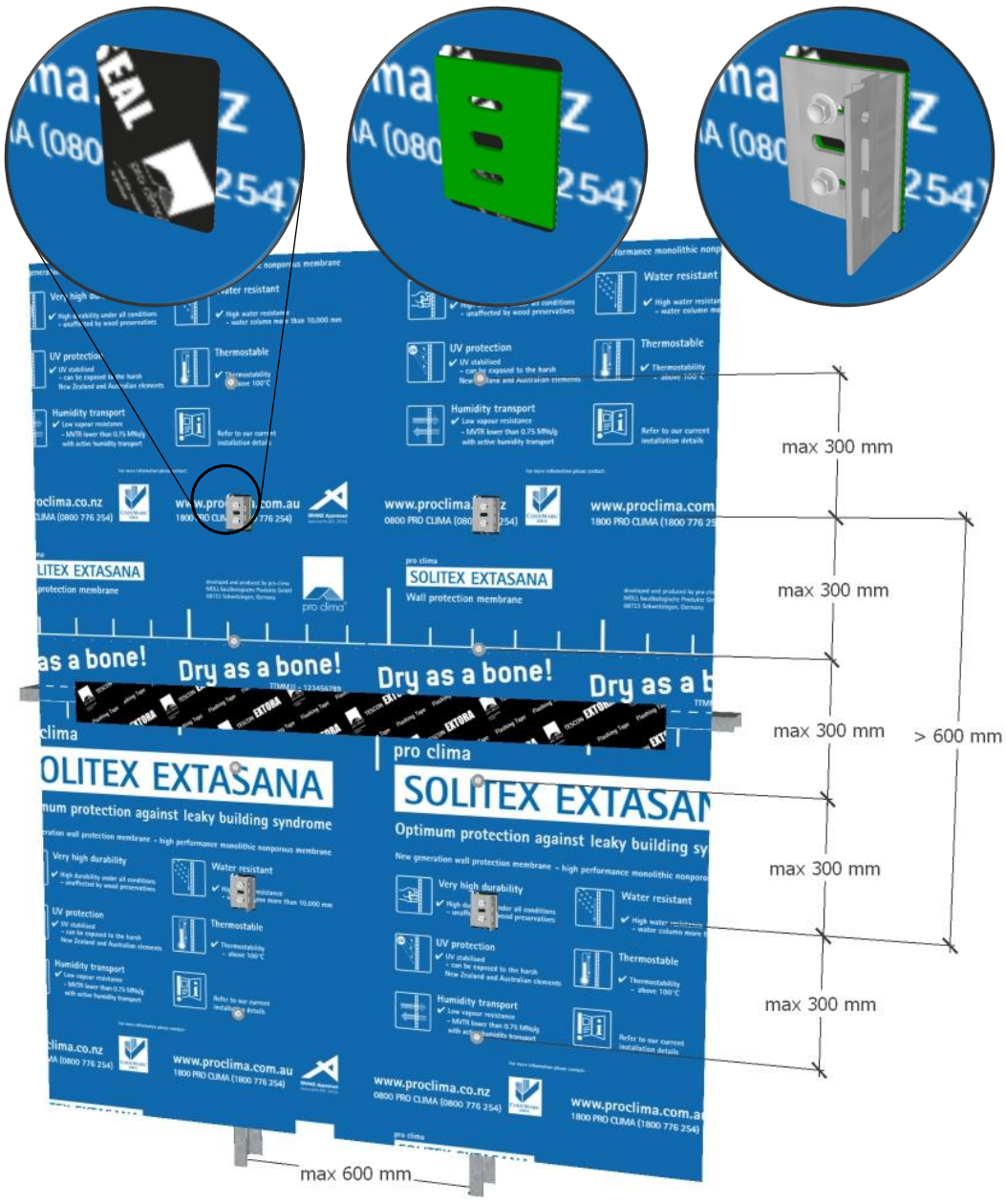
Rails provide continuous support for the membrane under leeward wind pressure. The studs provide support for the membrane under windward pressure. The maximum spans in both directions are 600 mm. Cladding rails at spans larger than 600 mm will require additional point fixings.



45

Horizontal Rails 900 mm

Horizontal top hats spaced at more than 600 mm require additional fixings to be added in-between to hold SOLITEX EXTASANA® at 300 mm centers with studs at maximum 600 mm centers. Galvanised hex self-drilling screws with EPDM washer (12 gauge) & 20 mm long shall be used to fix M8 large galvanised flat washers 32 mm diameter to hold SOLITEX EXTASANA® as shown to allow the max serviceability pressures defined by EQUITONE.



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Aluminium Bracketry System

Brackets are evenly spaced onto the stud wall. When spaced > 600 mm additional fixings at max 300 mm centers on max 600 mm center studs are required to hold SOLITEX EXTASANA®. Galvanised hex self-drilling screws with EPDM washer (12 gauge) & 20 mm long shall be used to fix M8 large galvanised flat washers 32 mm diameter to hold SOLITEX EXTASANA® as shown to allow the maximum serviceability pressures defined by EQUITONE.

IMPORTANT

TESCON® NAIDECK mono patch is a butyl sealing patch. Sealing material is pulled into the hole created when a screw is fitted. This is particularly important with oval holes where the EPDM washers on the hex screws cannot effectively seal.

TESCON® NAIDECK mono patch
Sealing patches for use at bracket mounts and point fixings.

		TESCON EXTORA®	TESCON EXTORA® PROFIL	TESCON EXTOSEAL®	TESCON® NAIDECK	ORCON® CLASSIC	CONTEGA® IQ	KAFLEX mono/duo	KAFLEX post	ROFLEX	DUPLEX	TESCON® PRIMER RP
Timber, OSB, Plywood	dirty			✓								✓
	clean	✓	✓	✓	✓	✓						✓
Plaster board	clean	✓	✓	✓		✓						✓
Paint primers		✓	✓	✓		✓	✓				✓	✓
AEROSANA® VISCONN	dry / clean	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
PIR Polysiocanurate	on foil	✓	✓	✓		✓		✓	✓	✓		✓
	on PIR											
XPS Extruded Polystyrene	clean	✓	✓	✓		✓		✓	✓	✓		✓
EPS Expanded Polystyrene	clean	✓	✓	✓		✓		✓	✓	✓		✓
Expanding foams	dry											
Cement/Gypsum plaster	smooth	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
	rough					✓						✓
	friable											✓
Acrylic plaster	smooth	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
	rough					✓						✓
Steel	galvanized	✓	✓	✓		✓					✓	
	bright	✓	✓	✓		✓					✓	
	painted	✓	✓	✓		✓					✓	
Aluminium	clean	✓	✓	✓		✓					✓	
Brickwork	rough					✓						✓
	friable											✓
Concrete	smooth	✓	✓	✓		✓	✓	✓	✓	✓		✓
	rough					✓						✓
Fibre cement	clean	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	friable											✓
Window Frames	aluminium	✓	✓	✓		✓	✓				✓	
	PVC	✓	✓	✓		✓	✓				✓	
	timber	✓	✓	✓		✓	✓				✓	
Cables	flat	✓	✓	✓		✓			✓			
	round	✓	✓	✓		✓		✓				
Pipes / ductings		✓	✓	✓		✓				✓		

Notes:

- Surface should always be dry.
- TESCON® PRIMER RP is always recommended for mineralic surfaces.

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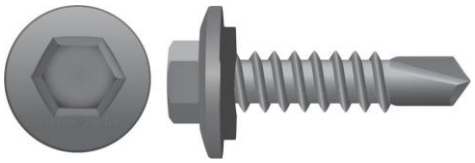
pro clima SOLITEX EXTASANA® Product Matrix

SOLITEX EXTASANA® is compatible with all pro clima Adhesive Tapes and Sealants. Optimum weatherproofing is achieved when wind tight connections are made between SOLITEX EXTASANA® and other building materials and components. The table above provides guidance on the use of pro clima Adhesive Products when used to connect SOLITEX EXTASANA® with other common building materials.



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Point Fasteners
Galvanised hex self-drilling screws with EPDM washer 12 gauge 20 mm to ensure fixings do not allow a water leakage path.

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Washers for Load Spreading
M8 large galvanised flat washers 8 mm x 32 mm x 1.8 mm provide load spreading to increase fixing pressure rating.

Recommendations and requirements

- The recommendations in this guide use pro clima DUPLEX as a temporary fixing method to hold SOLITEX EXTASANA® as it is being applied to steel framing.
- SOLITEX EXTASANA®, TESCON EXTORA® and TESCON EXTOSEAL® form a continuous system. Any damage or tears should be patched with TESCON EXTORA®.
- When conditions on site are expected to be windy it is recommended that additional fixings are included at regular intervals in accordance with SOLITEX EXTASANA® - EQUITONE fixing guide to ensure wind does not pull SOLITEX EXTASANA® from the wall prior to the cladding mounting systems being installed.
- It is recommended that the cladding mounting systems are installed as soon as possible after installing the membrane and close attention is paid to wind forecasts.
- pro clima KAFLEX can be used for cable penetrations when necessary.
- Although SOLITEX EXTASANA® provides a level of weather protection prior to cladding it is not intended as an early close in system and is designed and tested in combination with EQUITONE cladding systems to provide weathertightness up to the pressure thresholds specified by EQUITONE.

TESCON EXTORA®
Pressure sensitive adhesive tape for overlaps and end laps in SOLITEX EXTASANA® system.

TESCON EXTOSEAL®
Flexible flashing tape for use around window and door openings as part of the SOLITEX EXTASANA® system.

DUPLEX
Double sided acrylic tape for temporary fixing of SOLITEX EXTASANA® to steel studs.

TESCON® ADHISO WS
Pure aluminium tape for wet seal connections to TESCON EXTOSEAL® and SOLITEX EXTASANA®.

Certification of SOLITEX EXTASANA®

Red List Free

BRANZ Appraised
Appraisal No.822 [2013]

Your local support

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