

PAVILIONTM
BY STRATCO



1300 155 155

www.pavilion-stratco.com.au



ARCHITECTURAL SUMMARY

» SUMMARY	PAGE 2
» DESIGN OPTIONS	PAGE 5
» COMPONENTS	PAGE 8
» LIGHTING OPTIONS	PAGE 12
» COLOURS	PAGE 14
» FEATURES & BENEFITS	PAGE 17
» SPAN TABLES	PAGE 22
» GENERAL NOTES	PAGE 30
» WARRANTY	PAGE 31
» CONTACT	PAGE 34

PAVILION[™]
BY STRATCO

A DRAMATIC SENSE OF OPENNESS & SPACE

Innovative design and engineering combine to minimise the number of columns required and maximise roof spans, giving Pavilion a dramatic sense of openness and space.



CLASSICAL

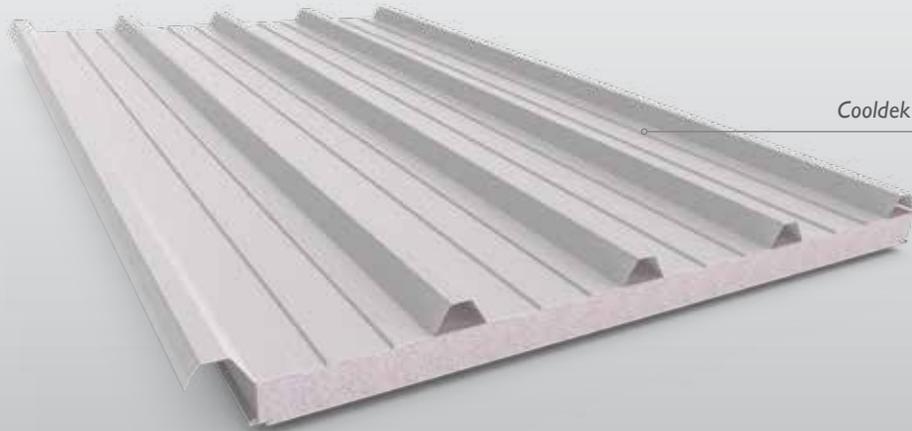
ARCHITECTURAL PROPORTIONS

Experience outdoor living like never before with the unparalleled aesthetic of Pavilion. The classical architectural proportions of Pavilion created by larger columns and bulkheads, and the distinctive Edge gutter, respond to emerging trends for a more substantial looking structure.

METICULOUS

ATTENTION TO DETAIL

With meticulous details such as Aluminium Composite Panels (popular in many commercial buildings and architectural projects), integrated LED lighting, concealed fasteners and downpipes, Pavilion adds an element of sophistication, elegance, and glamour to outdoor living.



Cooldek insulated roofing

Edge gutter

Integrated lighting

Contemporary lighting

Extensive metallic colour range

INSULATED COMPOSITE ROOFING

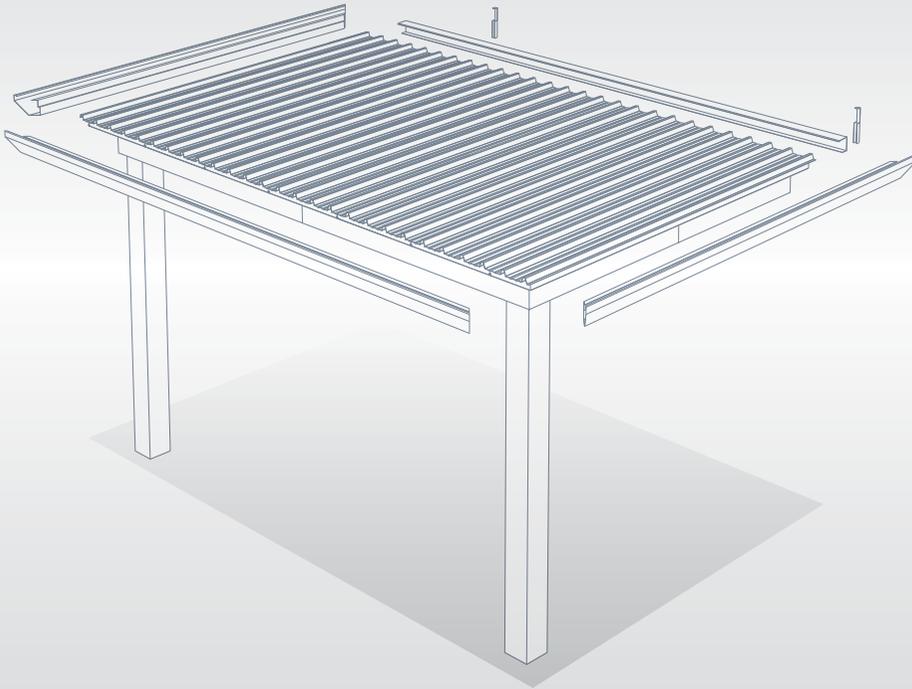
The smooth ceiling like finish of the insulated Cooldek roofing further enhances the clean, contemporary design and thermal comfort of Pavilion.

PAVILION
BY STRATCO



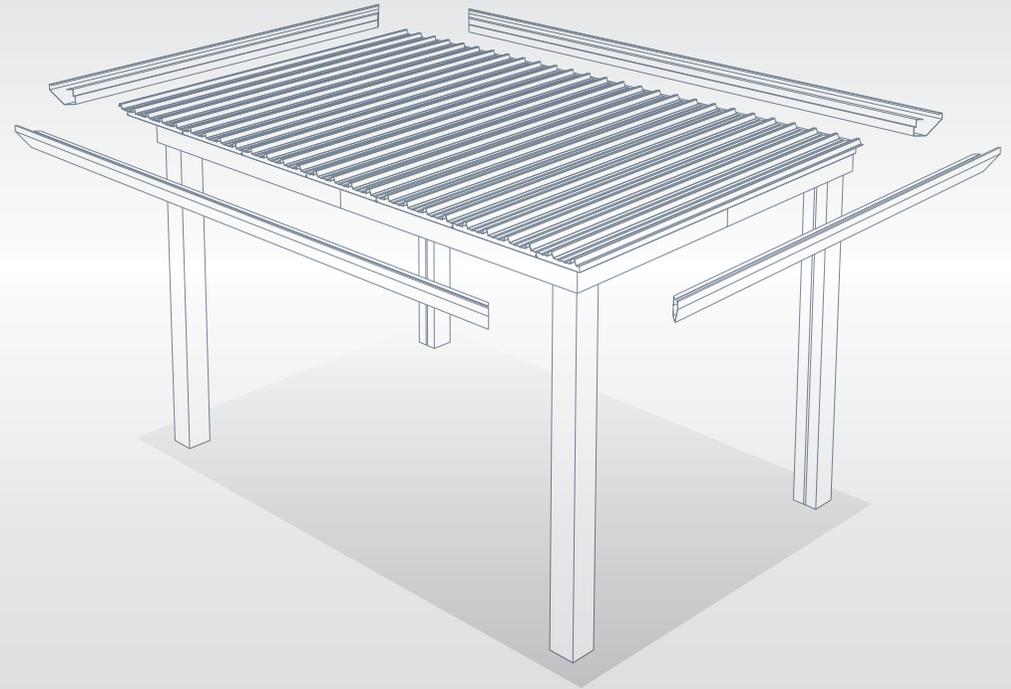
DESIGN OPTIONS

ATTACHED



Refer to Page 6 for Design Option details.
Refer to Page 23 for Span details.

FREESTANDING



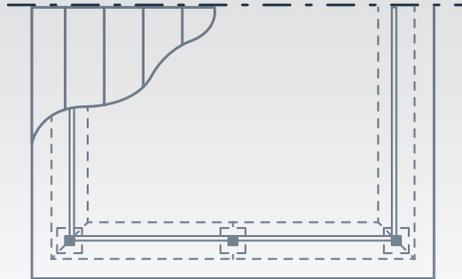
Refer to Page 7 for Design Option details.
Refer to Page 25 for Span details.

PAVILION[™]
BY STRATCO



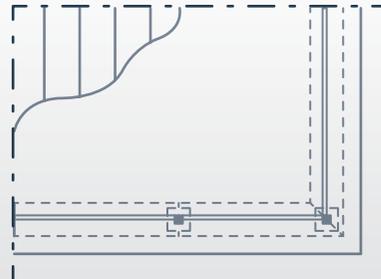
ATTACHED DESIGNS

AI Attached One Side

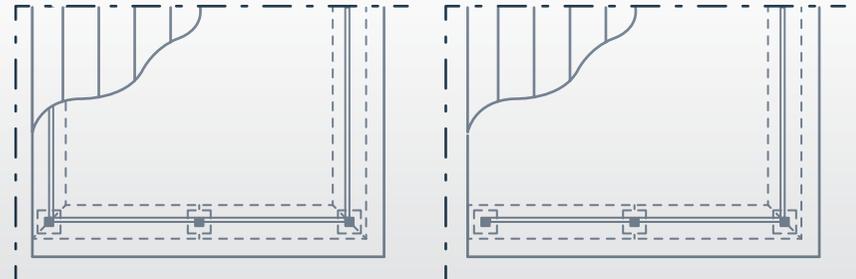


NOTE: No designs can be rotated through 90° to run the roof sheeting parallel to the attached wall or eaves line.

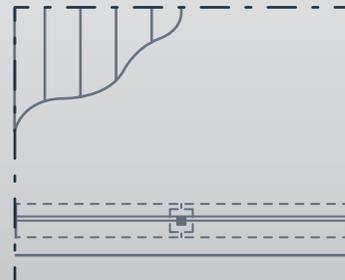
AC Attached in a Corner
(Front Beam Fascia/Wall Connection)



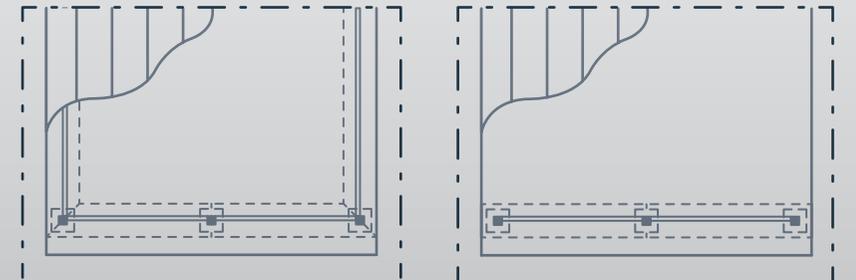
ACP Attached in a Corner
(Front Corner Posts)



AA Attached in an Alcove
(Front Beam Fascia/Wall Connection)

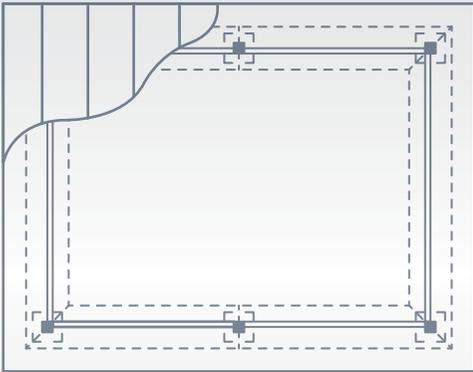


AAP Attached in an Alcove
(Front Corner Posts)

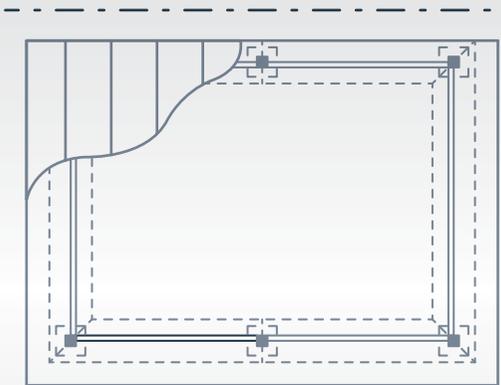


FREESTANDING DESIGNS

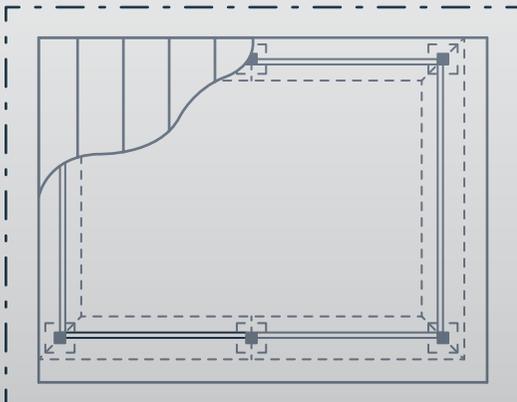
F0 Freestanding



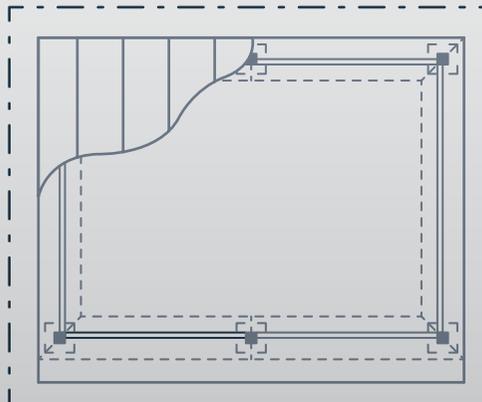
F1 Freestanding +
One Side Adjacent Structure



F2 Freestanding +
Two Side Adjacent Structure



F3 Freestanding +
Three Side Adjacent Structure



NOTE: 'Adjacent Structure' is defined as no closer than 500mm from that building.



PAVILION[™]
BY STRATCO

COMPONENTS

COMPOSITE PANEL BULKHEAD

- » 4mm ALUMINIUM COMPOSITE PANEL
- » SEAMLESS DESIGN
- » SLEEK APPEARANCE
- » ARCHITECTURAL APPEAL
- » MODERN DESIGN

COOLDEK CEILING

- » INSULATION & CEILING LIKE FINISH
- » SUPERIOR SPANNING CAPABILITIES
- » THREE THICKNESSES AVAILABLE
- » EQUIVALENT TO R2.8 PERFORMANCE
- » THREE CEILING PROFILES

CONTEMPORARY LIGHTING

- » 316 STAINLESS STEEL LIGHTING
- » PLUG & PLAY LOW VOLTAGE SYSTEM
- » LONG LIFE ECO LED LIGHTING
- » CEILING/COLUMN/WALL LIGHTING OPTIONS
- » DIMMABLE





EDGE GUTTER

- » CLASSIC CONTEMPORARY ARCHITECTURE
- » EXTENSIVE COLOUR RANGE
- » INCREASED WATER CARRYING CAPACITY
- » MODERN PROFILE
- » CONCEALED DOWNPIPE DESIGN

BULKHEAD & COLUMN DESIGN

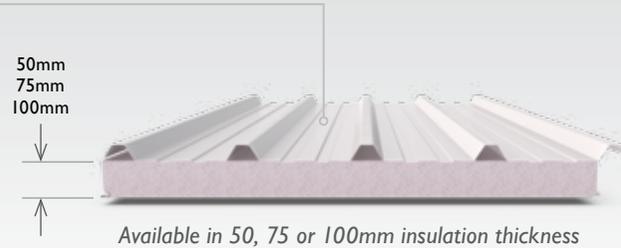
- » STRIKING ARCHITECTURAL PROPORTIONS
- » COMPLEMENTARY TO MODERN HOUSE DESIGNS
- » CONCEALED FIXINGS
- » METALLIC COLOUR RANGE

PAVILION[™]
BY STRATCO

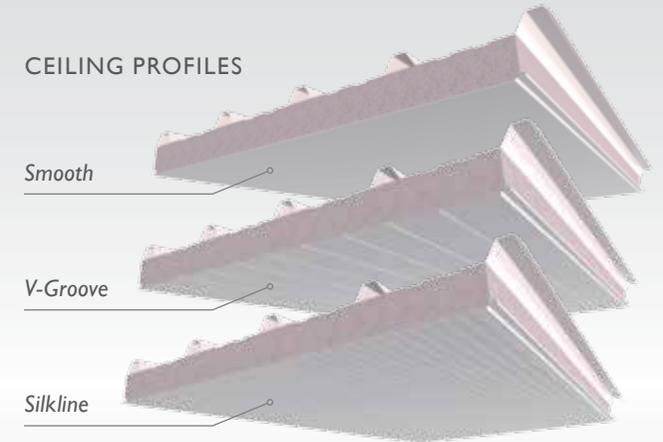
COMPONENTS - TECHNICAL DETAIL

INSULATED COOLDEK ROOFING

The innovative Cooldek® insulated panel provides a roof, insulation and ceiling like finish all in one product. With superior spanning capabilities and three insulation thicknesses to choose from, it is an ideal solution for the Pavilion application.

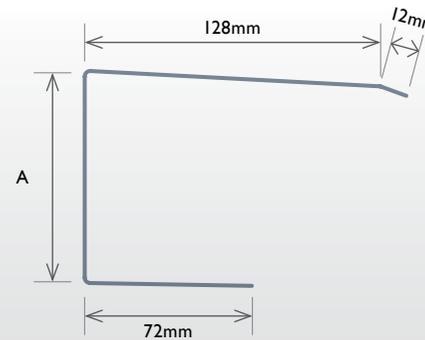


CEILING PROFILES



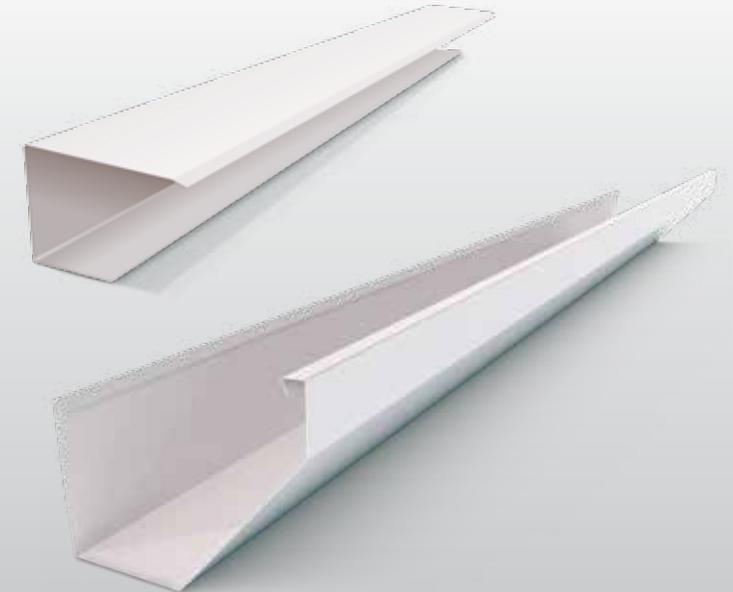
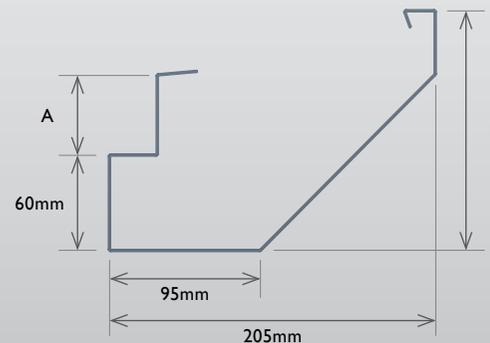
COOLDEK BACK CHANNEL

BACK CHANNEL	A
50mm COOLDEK	90mm
75mm COOLDEK	115mm
100mm COOLDEK	140mm



EDGE GUTTER

GUTTER	A	B
50mm EDGE GUTTER	50mm	150mm
75mm EDGE GUTTER	75mm	175mm
100mm EDGE GUTTER	100mm	200mm



ALUMINIUM COMPOSITE PANEL BULKHEADS & COLUMNS

- » ARCHITECTURALLY APPEALING
- » ALFRESCO BRILLIANCE



BULKHEAD DIMENSIONS



COLUMN DIMENSIONS



ADJUSTABLE WALL LIGHT



12W CEILING DOWN LIGHTS (5W ALSO AVAILABLE)



UP/DOWN COLUMN LIGHTS



LIGHTING OFFER

LIGHTING OPTIONS	DIMENSIONS	LIGHTS/KIT	WATTS/LIGHT
UP/DOWN COLUMN LIGHTS	70mm Diameter 250mm Height	2	9W
5W CEILING DOWN LIGHTS	75mm Diameter	4	5W
12W CEILING DOWN LIGHTS	130mm Diameter	2	12W
ADJUSTABLE WALL LIGHT	70mm Diameter 100mm Height	4	4.5W

Lighting is 12V 'Plug & Play'.

Lights can be dimmed if there is a universal dimmer on the control switch.

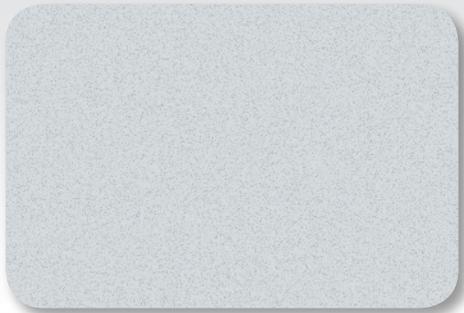
Up/Down Column Lights are 316 grade stainless steel.

2 Year Warranty on lighting.

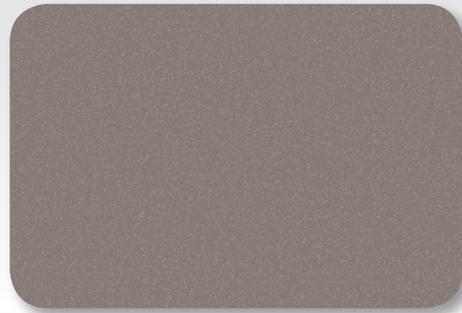
PAVILION
BY STRATCO

FRAME COLOURS

6 METALLIC COLOURS TO CHOOSE FROM FOR THE COLUMNS AND BULKHEADS



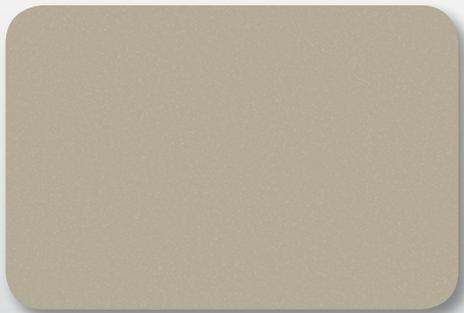
Sylvanite™



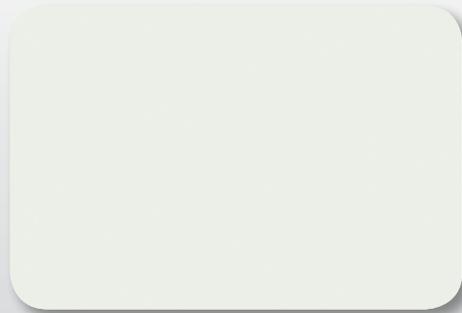
Flint™



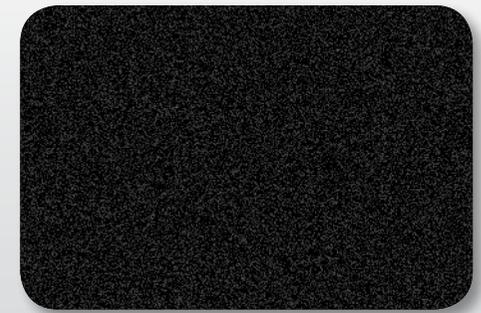
SilverSlate™



Sunstone™



Calcite™



Carbonite™

- » MODERN - A FIRST IN THE INDUSTRY
- » CONSUMER CHOICE
- » CONTRAST/COMPLEMENTS EXISTING HOME

*ASK FOR A SAMPLE TO TRULY APPRECIATE THE LUSTRE OF THE METALLIC FINISH.

COLOURS

COOLDEK CEILING COLOURS



EDGE GUTTER COLOURS





Concealed downpipe

FEATURE

BENEFIT

UNIQUELY DESIGNED FRAMEWORK WITH ARCHITECTURAL APPEAL

- Modern finish.
- Unparalleled aesthetic appeal.

6 METALLIC COLOURS TO CHOOSE FROM FOR COLUMNS & BULKHEADS

- Modern, never before seen in the industry.
- Consumer choice.
- Contrast or complement existing home.

COOLDEK INSULATED ROOFING

- Improved thermal performance.
- Excellent spanning capabilities.
- Noise reduction.
- Smooth ceiling like underside.

RANGE OF LIGHTING OPTIONS INTEGRATED INTO THE STRUCTURE

- Use your outdoor living area day & night in comfort.
- No exposed wiring on the structure.
- Long life, dimmable LED lighting

ALL INTERNAL FIXINGS

- No visible fixings amongst framework.
- Unparalleled aesthetic appeal.
- Easy to clean, low maintenance product.

STRUCTURAL FRAMEWORK ALL GALVANISED STRONG SHS SECTIONS

- Great spanning capabilities.
- Open uncluttered expanse.

PRE-FABRICATED SYSTEM USING PRECISION MANUFACTURING FACILITIES

- Consistency in manufacture.
- End result as seen on display.
- Less risk associated than a custom built project.
- Less tradespeople means less inconvenience.

CONCEALED DOWNPIPE DESIGN

- Provides a clean finish to the column with no external downpipe protruding.

PAVILION EDGE GUTTER PROFILE

- Provides a modern, striking finish to the Pavilion system.

FEATURE

BENEFIT

UP TO 7200mm SPANS

- The ability to cover large areas with an uncluttered expanse.
- Minimal columns.
- Less framework than comparable structures.

LOW MAINTENANCE

- Easy to clean surface.
- No unsightly gaps or edges that are difficult to clean.

15 YEAR STRUCTURAL & 15 YEAR PAINT FINISH WARRANTY

- Peace of mind for the consumer.
- Warranty provided by Stratco.

FREESTANDING OR ATTACHED

- Flexible in its design.
- Consumer choice.

FLEXIBLE ATTACHMENT OPTIONS

- Ability to be attached to many different existing structure types.

MANUFACTURED BY STRATCO

- Designed and manufactured in Australia.
- Peace of mind.
- Confidence in dealing with a national company.

INDEPENDENTLY CERTIFIED BY STRUCTURAL ENGINEERS

- Confidence in the structure's integrity.
- Innovative design and engineering.

ONLY AVAILABLE THROUGH ACCREDITED PAVILION PARTNERS

- All Pavilion Partners have been extensively trained.
- Only accredited installers can build the product.

PAVILION
BY STRATCO



SO MUCH MORE THAN JUST AN OUTDOOR
LIVING AREA... ALFRESCO LIVING

REDEFINED

Suitable for new builds and retro-fit applications,
freestanding or attached, Pavilion will assimilate with and
enrich any home environment. This is so much more than just
an outdoor living area, this is... alfresco living redefined.

PAVILION™
BY STRATCO

Our Ref: 51114-1

17 June 2014

Stratco (Australia) Pty. Ltd.,
P.O. Box 307,
ENFIELD PLAZA S.A. 5085

RE: PAVILION BY STRATCO

We, FYFE PTY. LTD., practising structural engineers, confirm that we have checked the designs prepared by Stratco (Australia) Pty. Ltd., for the Pavilion by Stratco, as detailed in the Span Table Book;

**PAVILION BY STRATCO
SPAN TABLES (© JUNE 2014)**

We hereby certify that the calculations, materials, forms of construction and systems to which the designs relate will, if installed in accordance with the designs, conform to the structural requirements of the Building Code of Australia, and the following Australian Standards:-

- AS/NZS 1170.0:2002 - Structural Design Actions - Part 0: General Principles
- AS/NZS 1170.1:2002 - Structural Design Actions - Part 1: Permanent, imposed and other actions
- AS/NZS 1170.2:2011 - Structural Design Actions - Part 2: Wind actions
- AS/NZS 1170.3:2003 - Structural Design Actions - Part 3: Snow and Ice actions

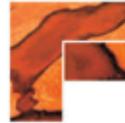
- AS 4100:1998 - Steel structures
- AS/NZS 4600:2005 - Cold-formed steel structures
- AS 3600:2009 - Concrete structures
- AS 4055:2012 - Wind Loads for Housing
- AS 1562.1:1992 - Design and Installation of sheet roof and wall cladding

In the preparation of this certification, we have relied on the load test reports, product data sheets and specifications provided by Stratco (Australia) Pty. Ltd., and other relevant proprietary product specifications.



TREVOR JOHN F.I.E. Aust.
Chartered Professional Engineer
NPER 106278
QLD Reg. No. 3664
NT Reg. No. 12178ES
VIC Reg. No. EC-1618
TAS Reg. No. CC-4375F

51114-1 2014.06.17 CERTIFICATION - PAVILION



FYFE
Earth Partners
ENVIRONMENT
DEVELOPMENT
RESOURCES

Level 3, 80 Flinders Street
Adelaide SA 5000

GPO Box 2450
Adelaide SA 5001
Telephone 61 8 8201 9600
Facsimile 61 8 8201 9650
www.fyfe.com.au

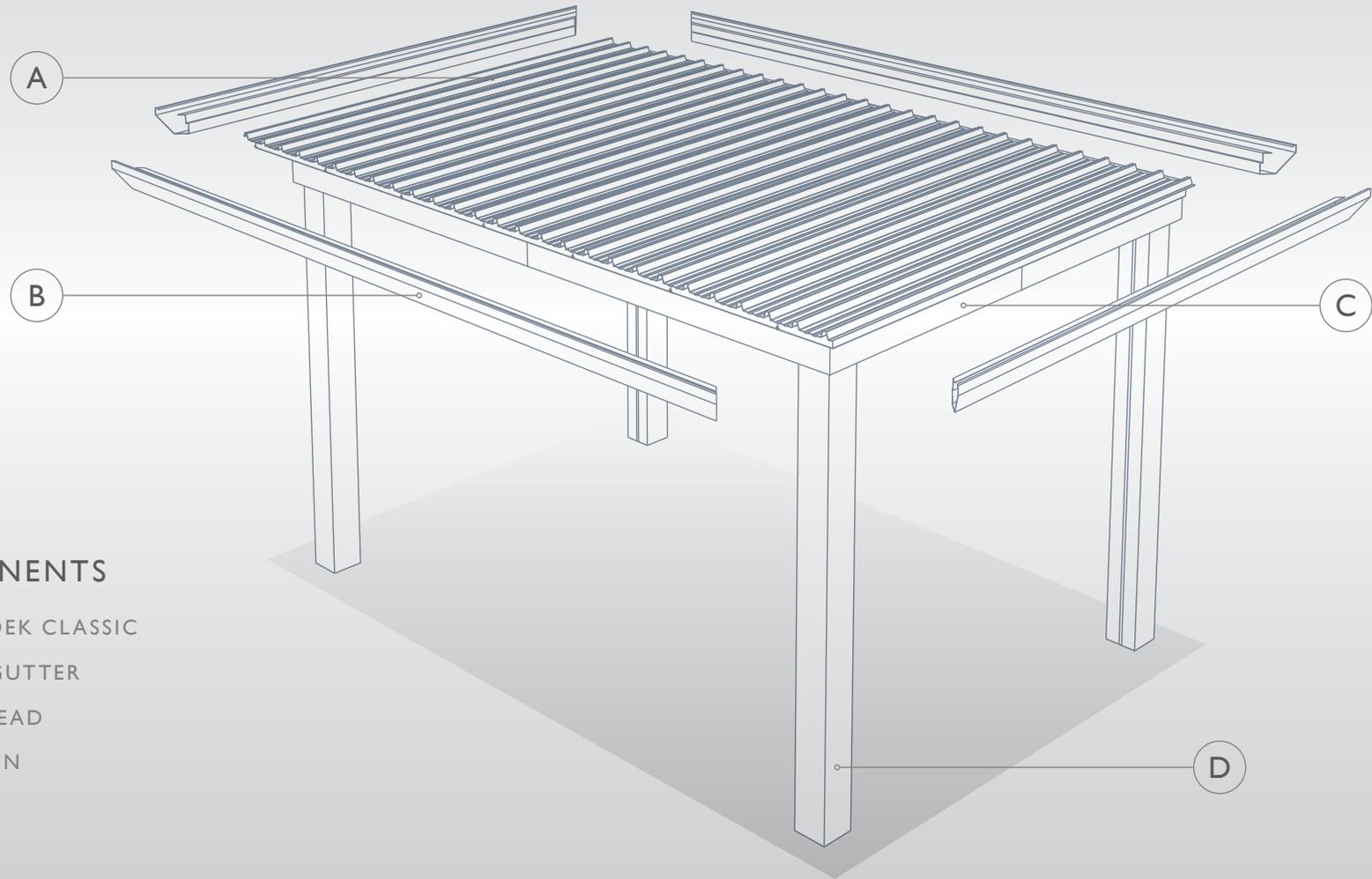
FYFE PTY LTD
ABN 57 008 116 130



INDEPENDENT CERTIFICATION

PAVILION™
BY STRATCO

FREESTANDING - SPAN TABLES



COMPONENTS

- (A)** COOLDEK CLASSIC
- (B)** EDGE GUTTER
- (C)** BULKHEAD
- (D)** COLUMN

Refer Stratco for further Span Table requirements.

MAXIMUM ALLOWABLE SPAN (mm)

COOLDEK SPAN S (mm)	N1 (W28)		N2 (W33)		N3 (W41)	
	PANEL THICKNESS	POST SPACING P	PANEL THICKNESS	POST SPACING P	PANEL THICKNESS	POST SPACING P
2400	50/75/100	7100	50/75/100	7100	50/75/100	7000
2700	50/75/100	7100	50/75/100	7100	50/75/100	6900
3000	50/75/100	7000	50/75/100	7000	50/75/100	6900
3300	50/75/100	7000	50/75/100	7000	50/75/100	6800
3600	50/75/100	6900	50/75/100	6900	50/75/100	6800
3900	50/75/100	6900	50/75/100	6900	50/75/100	6800
4200	50/75/100	6800	50/75/100	6800	50/75/100	6700
4500	50/75/100	6800	50/75/100	6800	50/75/100	6700
4800	50/75/100	6700	50/75/100	6700	50/75/100	6600
5100	50/75/100	6700	50/75/100	6700	50/75/100	6600
5400	50/75/100	6600	50/75/100	6600	50/75/100	6500
5700	75/100	6600	75/100	6600	75/100	6500
6000	75/100	6600	75/100	6600	75/100	6500
6300	75/100	6500	75/100	6500	100	6400
6600	75/100	6500	75/100	6500	100	6400
6900	100	6400	100	6400	100	6300
7200	100	6400	100	6400	100	6300
FOOTING TYPE	1		2		3	

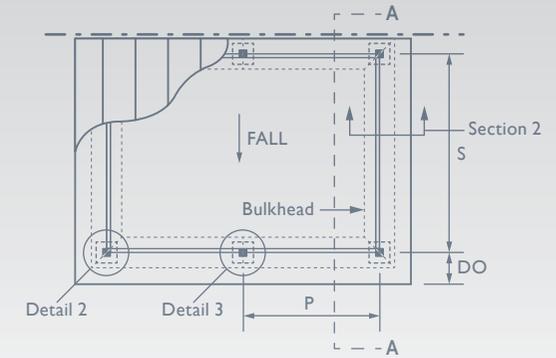
Note: Roof Pitch shall be 1° or 5° for all deck spans

FOOTINGS

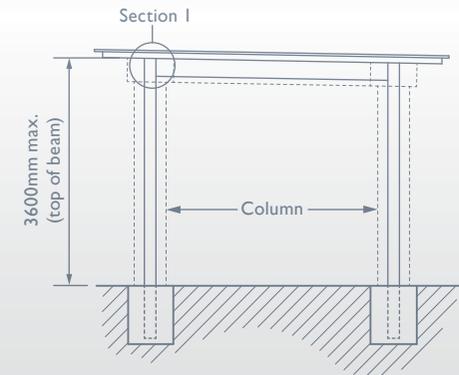
1. 450Ø x 750mm deep
2. 450Ø x 900mm deep
3. 450Ø x 1100mm deep

NOTES & REQUIREMENTS

1. These tables must be read in conjunction with General Notes and detail drawings on pages 20-24.
2. Span S is the distance between the external face of beams.
3. Post Spacing P is the distance from centre to centre of posts.
4. Maximum 415mm standard deck overhang (DO).
5. All posts into concrete footings.
6. Post height 3600mm maximum unless otherwise stated.
7. Maximum 3000mm post height for N3 (W41) units.
8. Post height is to top of RHS beam.
9. Interpolation may be used for values required between those shown in the tables.



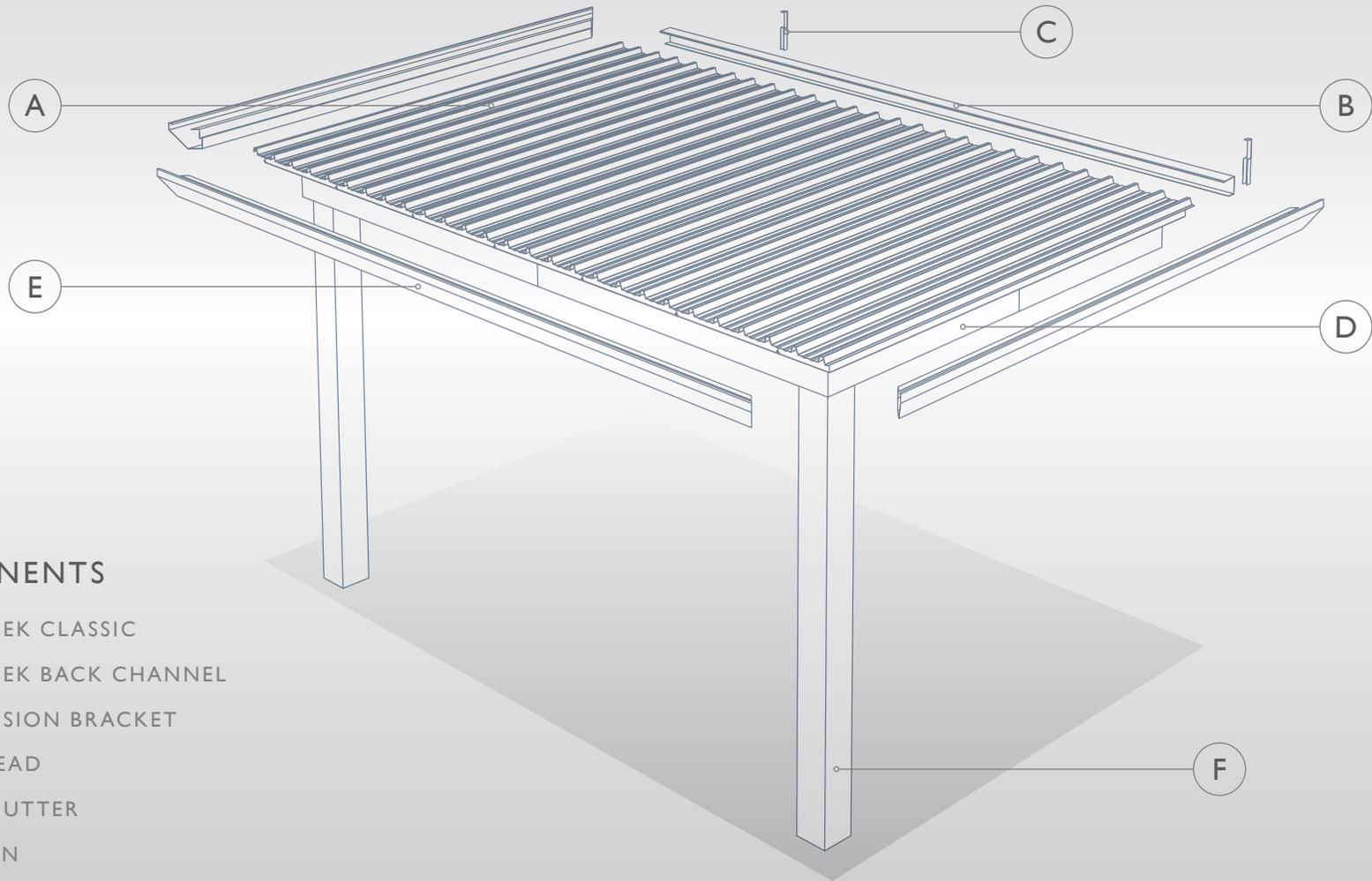
PLAN VIEW



SECTION A-A



ATTACHED - SPAN TABLES



COMPONENTS

- (A) COOLDEK CLASSIC
- (B) COOLDEK BACK CHANNEL
- (C) SUSPENSION BRACKET
- (D) BULKHEAD
- (E) EDGE GUTTER
- (F) COLUMN

Refer Stratco for further Span Table requirements.

MAXIMUM ALLOWABLE SPAN (mm)

COOLDEK SPAN S (mm)	N1 (W28)		N2 (W33)		N3 (W41)	
	PANEL THICKNESS	POST SPACING P	PANEL THICKNESS	POST SPACING P	PANEL THICKNESS	POST SPACING P
2400	50/75/100	7500	50/75/100	7500	50/75/100	7100
2700	50/75/100	7400	50/75/100	7400	50/75/100	7100
3000	50/75/100	7300	50/75/100	7300	50/75/100	7100
3300	50/75/100	7300	50/75/100	7300	50/75/100	7100
3600	50/75/100	7200	50/75/100	7200	50/75/100	7100
3900	50/75/100	7100	50/75/100	7100	50/75/100	7100
4200	50/75/100	7100	50/75/100	7100	50/75/100	7100
4500	50/75/100	7000	50/75/100	7000	50/75/100	7000
4800	50/75/100	7000	50/75/100	7000	50/75/100	7000
5100	50/75/100	6900	50/75/100	6900	50/75/100	6900
5400	50/75/100	6800	50/75/100	6800	50/75/100	6800
5700	75/100	6800	75/100	6800	75/100	6800*
6000	75/100	6700	75/100	6700	75/100	6700*
6300	75/100	6700	75/100	6700	100	6600*
6600	75/100	6700	75/100	6700	100	6500*
6900	100	6600	100	6600	100	6400*
7200	100	6600	100	6600	100	6300*
FOOTING TYPE	1		2		2	

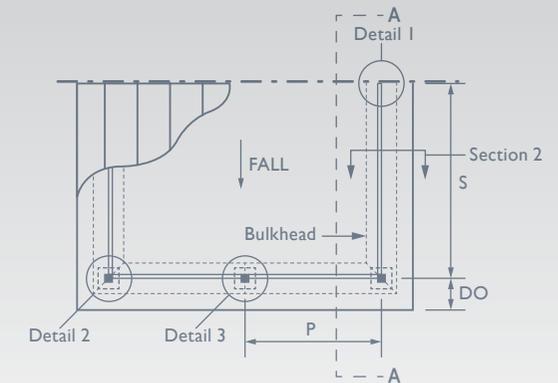
* Values are for into footing design only
Note: Roof Pitch shall be 1° for all deck spans

FOOTINGS

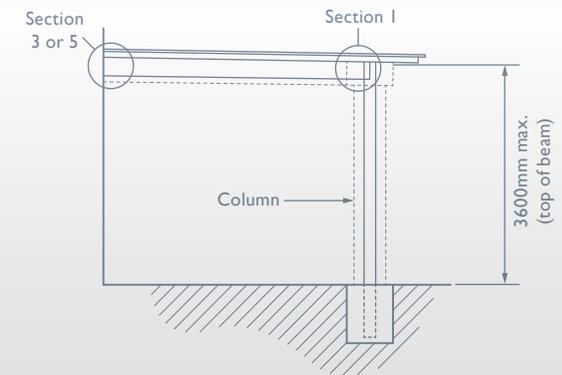
1. 450Ø x 600mm deep
2. 450Ø x 900mm deep

NOTES & REQUIREMENTS

1. These tables must be read in conjunction with General Notes and detail drawings on pages 20-24.
2. Span S is the distance between the back face of the back channel and the external face of the front beam.
3. Post Spacing P is the distance from centre to centre of posts.
4. Maximum 415mm standard deck overhang (DO).
5. This design may NOT be rotated through 90° to run the roof sheeting parallel to the wall or eaves line.
6. Maximum height 3600mm for all posts into concrete.
7. Maximum height 3000mm for any posts onto concrete.
8. Post height is to top of RHS beam.
9. Posts onto concrete may be fixed to existing concrete slab using the footing plate detail shown on page 20.
10. Recommended house reinforcement should be located at maximum 1200mm centres for the full length of the attachment. For additional information refer to pages 22-23.
11. Minimum one additional 30x0.8 strap brace tie down of roof rafters to wall for all cases.
12. Interpolation may be used for values required between those shown in the tables.



PLAN VIEW



SECTION A-A

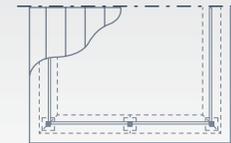


ATTACHMENT OPTIONS

Pavilion standard designs are all single span flat roofs with Cooldek Classic decking. All designs have no internal framework and the maximum deck span is 7200mm. This provides large spanning capabilities and an uncluttered ceiling-like appearance. Designs have maximum 415mm deck overhang measured from the front external face of beams. Nonstructural architectural bulkheads and columns enclose all structural beams and posts.

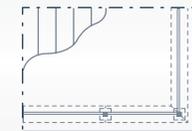
AI ATTACHED ONE SIDE:

Designs are determined by the Cooldek Span S running perpendicular to a fascia or wall.



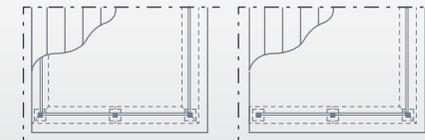
AC ATTACHED IN A CORNER (Front Beam Fascia / Wall Connection):

Designs allow for two sides to be attached to the wall or fascia.



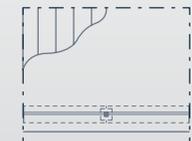
ACP ATTACHED IN A CORNER (Front Corner Posts):

Designs allow for one side to be attached to the wall or fascia with a front corner column required adjacent the wall or fascia.



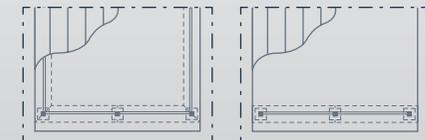
AA ATTACHED IN AN ALCOVE (Front Beam Fascia / Wall Connection):

Designs allow for three sides to be attached to the wall or fascia.



AAP ATTACHED IN AN ALCOVE (Front Corner Posts):

Designs allow for one side to be attached to the wall or fascia with a front corner column required adjacent the wall or fascia.



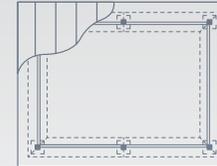
No designs may be rotated through 90° to run the roof sheeting parallel to the attached wall or eaves line.

For a side to be considered open, the roof cladding adjacent to that side must be at least 500mm from another building or allotment boundary.

FREESTANDING OPTIONS

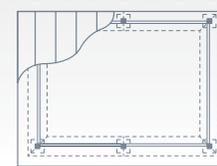
F0 Freestanding:

Designs allow for all roof edges to be at least 500mm from another building or allotment boundary (open sides).



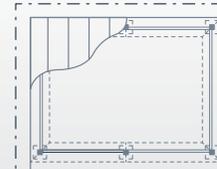
F1 Freestanding + One Side Adjacent Structure:

Designs allow for any one side to be butted against an existing structure, building or allotment boundary but not connected in any way.



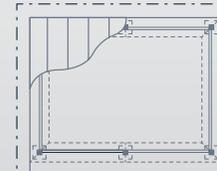
F2 Freestanding + Two Sides Adjacent Structure:

Designs allow for any two sides adjacent each other to be butted against an existing structure but not connected in any way.



F3 Freestanding + Three Side Adjacent Structure:

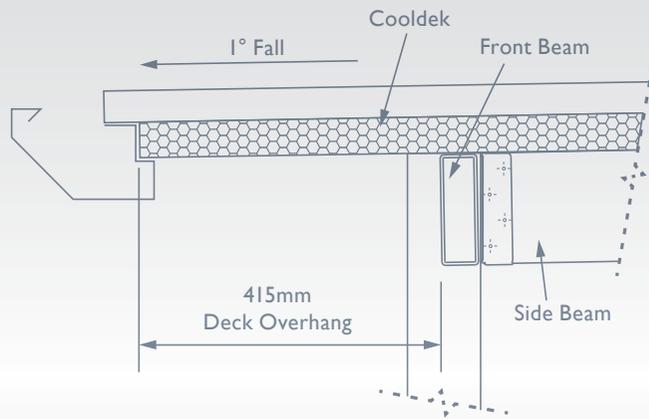
Designs allow for any three sides to be butted against an existing structure but not connected in any way.



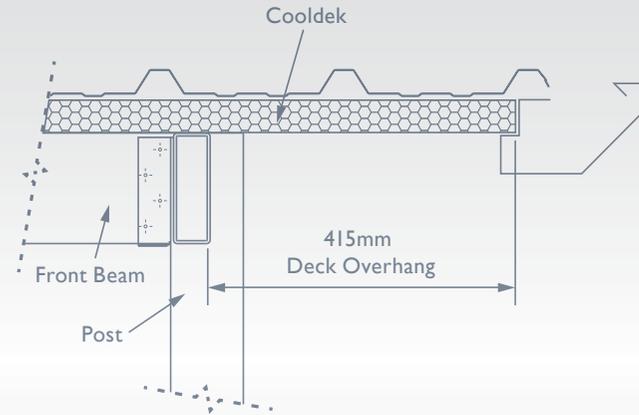
For a side to be considered open, the roof cladding adjacent to that side must be at least 500mm from another building or allotment boundary.

PAVILION
BY STRATCO

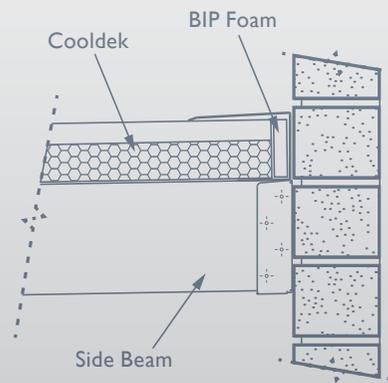
SECTION DETAILS



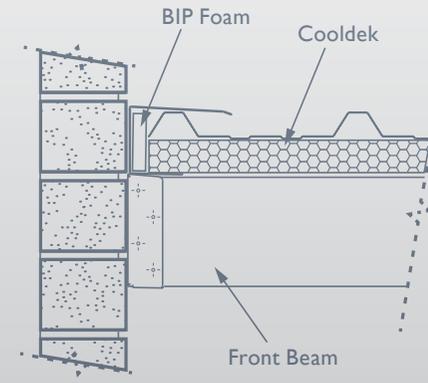
SECTION 1



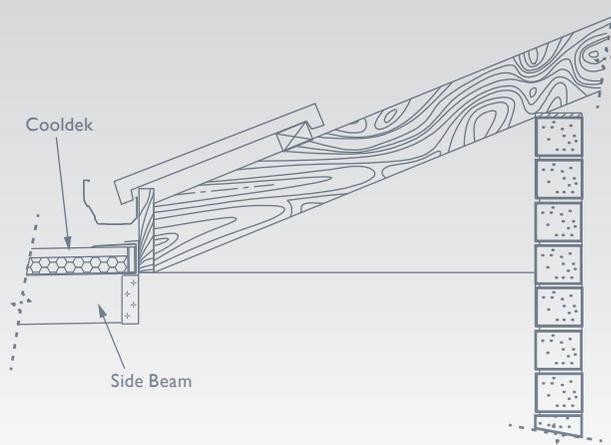
SECTION 2



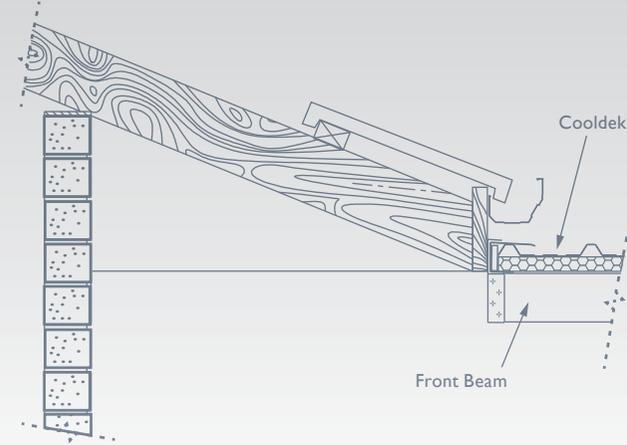
SECTION 3



SECTION 4

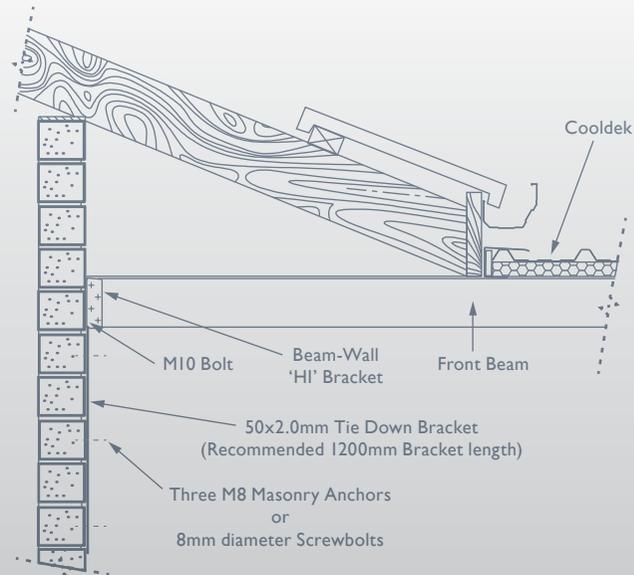


SECTION 5



SECTION 6

BEAM TO WALL TIE DOWN
(FRONT BEAM)



GENERAL NOTES

- » The structural components used comply with the following Australian Standards:
 - Hot rolled plate conforms to AS/NZS1594 and AS/NZS3678.
 - Roof sheeting complies with ASI397 - Steel Sheet Strip.
 - Bolts comply with AS/NZS2451, ASI110.1 and ASI111.1.
 - Self drilling screws comply with AS3566.1.
 - All other proprietary products to be in accordance with the manufacturer's recommendations.
- » The testing and design of structural members comply with the following Australian Standards:
 - Structural Design Actions, AS/NZS1170.0:2002 - General Principles
 - Structural Design Actions, AS/NZS1170.1:2002 - Permanent, Imposed and Other Actions
 - Structural Design Actions, AS/NZS1170.2:2011 - Wind Actions
 - Wind Loads for Housing, AS4055 - 2012
 - Cold Formed Steel Structures, AS/NZS4600 - 2005
 - Steel Structures, AS4100 - 1998
 - Concrete Structures, AS3600 - 2009
 - Design and Installation of Sheet Roof and Wall Cladding, ASI562.1 - 1992
- » Maximum 415mm standard deck overhang (DO).
- » This design may NOT be rotated through 90° to run the roof sheeting parallel to the wall or eaves line.
- » Maximum height 3600mm for all posts into concrete.
- » Maximum height 3000mm for any posts onto concrete.
- » Post height is to top of RHS beam.
- » Recommended house reinforcement should be located at maximum 1200mm centres for the full length of the attachment.
- » Maximum height shall be 3.6 metres for units with some units restricted in height for better performance. Refer to the relevant section for further details on allowable unit heights.
- » Deck options are Cooldek Classic 50mm, 75mm and 100mm deep.
- » Roof pitch shall be 1° (1 in 60) or 5° (1 in 11.5) for freestanding units and 1° for attached units. Care must be taken to ensure the minimum roof pitch is maintained to avoid ponding of rainwater. Minimum fall of units towards downpipes is 1 in 500.
- » Where allocated, a standard deck overhang of 415mm applies, measured from external face of beams.
- » Posts are to be 100 x 100 x 3.0mm SHS.
- » Architectural (non-structural) bulkheads external dimensions are 400mm wide x 200mm deep. Architectural columns external dimensions are 275mm x 275mm.
- » Stratco recommend where a side/sides of a unit are considered adjacent an existing structure (ie. not attached but not open) there should be a minimum 30mm gap between the edge of the Pavilion unit and the existing structure.
- » Generally, structural members have an allowable dead load deflection of span/150, however this has been restricted to a maximum of 20mm for aesthetic and practical purposes.
- » Pavilion by Stratco has been designed as a complete system. Only Pavilion by Stratco components may be used. Any guarantee provided by Stratco will only apply if all components have been supplied by Stratco, and installed in accordance with Stratco details.

WARRANTY

PAVILION
BY STRATCO

WARRANTY

15 YEAR STRUCTURAL • 15 YEAR PAINT FINISH • 1 YEAR INSTALLATION

PAVILION[™]
BY STRATCO



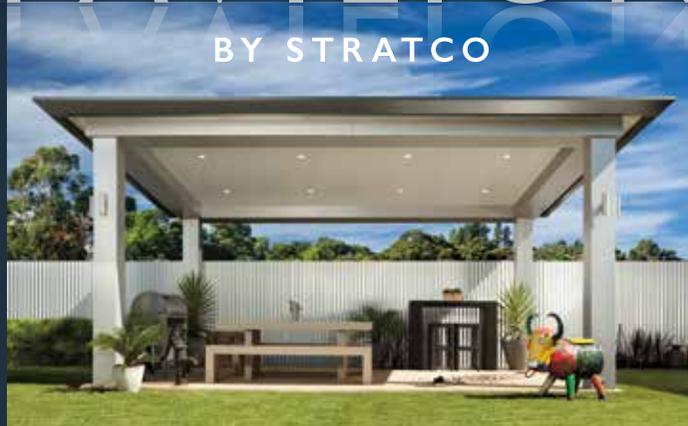


PAVILION™
BY STRATCO

“ This is so much more than just an outdoor living area, this is... alfresco living redefined. ”

PAVILIONTM

BY STRATCO



1300 155 155
www.pavilion-stratco.com.au

pavilion@stratco.com.au