

ABSCO SHEDS So Tough Too Easy Model: CPSW50







SITE PREPARATION

- Local council approval must be obtained prior to construction of the carport. Once you have selected your site you will need to create and lodge a site plan to your local council or certifier. You will also have to attach a copy of the engineering drawings at the back of these instructions to your site plan.
- The site for the carport must be level, refer to concrete and foundation notes on engineers drawing 06205-003-CP03.

GENERAL INSTRUCTIONS

- Before commencing any assembly, read through these instructions and engineers drawings in detail to gain a thorough understanding of assembly methods and associated details.
- Some components have been pre-punched. Some 10mm holes will still have to be drilled. It may be easier to drill a small pilot hole first.
- Measure, and check off all components using the parts lists on the following pages prior to commencement. To prevent damage in transit, some components may be packed inside others, almost hidden. Carefully examine inside each component to ensure that you have located every item. If a discrepancy is found, contact Absco industries immediately.

TOOLS REQUIRED

SPIRIT LEVELSPANNERS

- TAPE MEASURE
 - CLAMP OR VICE GRIPS
- HACKSAW



10mm DRILL BIT AND

MASONRY DRILL BIT

10mm MASONARY DRILL BIT





A NOTE ON SAFETY

- Some parts may have sharp edges. It is advisable to wear gloves when handling these items and safety glasses if drilling holes. Sensible shoes are highly recommended.
- It is highly recommended to erect the carport with at least two or more people.













COMPONENTS PACKING LIST - CHECK OFF ALL COMPONENTS

	CPSW50 SINC	GLE C	ARPO	RT F	RAME COMPON	ENTS	
QTY	COMPONENT DESCRIPTION	PART No.	СНЕСК	QTY	COMPONENT DESCRIPTION	PART No.	CHECK
2	EDGE BEAM L= 3000	EB		2	EDGE BEAM LEFT HAND L= 2750	EBLH	
2	EDGE BEAM RIGHT HAND L= 2750	EBRH		6	EDGE BEAM SPLICE PLATE L= 608	EBSP	
3	CROSS BEAM L= 2720	СВ		2	CROSS BEAM L= 2850	СВ	
3	COLUMN TOP BRACKET LEFT HAND	CTBLH		3	COLUMN TOP BRACKET RIGHT HAND	CTBRH	
4	30 x 30 ANGLE ROOF BRACE L=920	ARB 920		2	30 x 30 ANGLE ROOF BRACE L=855	ARB 855	
4	65 x 65 x 2.5 STEEL COLUMN L = 2250	RHS		2	65 x 65 x 2.5 STEEL COLUMN L = 2200	RHS	
8	STEEL SHEET L= 2820	SHEET					

BEND COLUMN TOP BRACKETS (CTBLH & CTBRH)



BEND EACH COLUMN TOP BRACKET ALONG THE SLOTTED CENTRE LINE, SIMPLY BY HOLDING THE BRACKETS AT POINTS A & B AS SHOWN.

APPLY SUFFICIENT PRESSURE TO FORM A 90 DEGREE ANGLE ALONG THE BEND LINE.

ENSURE THAT THE EXISTING PRE-FOLDED EDGES ALWAYS FACE INWARDS. THE END RESULT WILL GIVE YOU TWO LEFT HAND AND TWO RIGHT HAND BRACKETS.



COMPONENTS PACKING LIST - CHECK OFF ALL COMPONENTS

	CPSW50 SING	ELE C	ARPOF	RT FI	RAME ACCESSO	RIES	
QTY	COMPONENT DESCRIPTION	PART No.	CHECK	QTY	COMPONENT DESCRIPTION	PART No.	CHECK
4	JOINER ANGLE 50 x 50 L = 45mm (EDGE BEAM INNER CORNER CONNECTOR)	JA-1		4	JOINER ANGLE 50 x 50 L = 100mm (EDGE BEAM OUTER CORNER CONNECTOR)	JA-2	
8	JOINER ANGLE 100 x 50 L = 50mm (MID CROSS BEAM TO EDGE BEAM CONNECTOR)	JA-3		4	50mm JOINER PLATE L = 100mm (BACKING SUPPORT PLATE FOR JA-3)	JP	
12	75 x 75 ANGLE COLUMN BASE BRACKET L= 65mm (CONNECT COLUMNS TO CONCRETE)	CBB		12	25mm WIDE FLAT STRIPS L = 270mm (FOLD FOR LATER USE AS ROOF BRACKETS)	RB	
2	25mm WIDE FLAT STRIPS L = 270mm (FOLD FOR LATER USE AS DOWNPIPE STRAPS)	DS		1	50mm PVC DOWNPIPE L = 1880mm	DP-1	
1	50mm PVC DOWNPIPE L = 900mm	DP-2		2	50mm PVC DOWNPIPE 90° bend	DP-3	
1	50mm PVC DOWNPIPE 45° bend	DP-4		1	50mm ROUND GALV. GUTTER DROP FOR DOWNPIPE	DP-5	



COMPONENTS PACKING LIST - CHECK OFF ALL COMPONENTS

C	PSW50 SINGLE CARP		RAM	E ACCESSORIES (CO	NT.)
QTY	COMPONENT DESCRIPTION	CHECK	QTY	COMPONENT DESCRIPTION	СНЕСК
12	12mm DYNABOLTS		120	NEOPREHNE WASHERS	
200	10mm x 16mm WAFER HEAD SELF DRILLING TEK SCREWS		280	WASHERS	
24	10mm x 80mm BOLTS & NUTS		1	ASSEMBLY INSTRUCTIONS	
120	10mm x 20mm BOLTS & NUTS				



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ABSCO INDUSTRIES





THIS INSTRUCTION.

THREE TEK SCREWS.



STEP 3.

MARK OFF THE SIDE BEAMS TO THE DIMENSIONS SHOWN BELOW. THESE ARE THE POSITIONS FOR LOCATING THE COLUMN TOP BRACKETS, TO WHICH THE COLUMNS AND CROSS BEAMS WILL BE LATER CONNECTED.



THE REAR RHS COLUMNS ARE 50mm SHORTER THAN THE FRONT RHS COLUMNS. THIS PRODUCES ABOUT A ONE DEGREE FALL IN THE ROOF, TO ALLOW RAINWATER TO FLOW TO THE REAR DOWNPIPE.

THEREFORE, TO ENSURE THAT THE COLUMNS WILL REMAIN VERTICAL WHEN THE STRUCTURE IS RAISED, EACH COLUMN TOP BRACKET MUST BE OFFSET BY 6mm AS SHOWN BELOW. YOU CAN SEE BELOW HOW THE END RESULT WILL KEEP THE COLUMNS VERTICAL BUT TILT THE ROOF.



STEP 3A. FIT AN EXTRA SPLICE PLATE IN EACH SIDE EDGE BEAM, OVER THE FRONT AND REAR COLUMN POSITIONS AND FASTEN WITH TEK SCREWS. SIDE UNIT OF THE FOUR HOLES TO BE DRILLED IN THE BEAMS AT

MARK THE HOLE POSITIONS FOR THE FOUR HOLES TO BE DRILLED IN THE BEAMS AT EACH LOCATION, AND DRILL 10mm HOLES. DO NOT FASTEN THE COLUMN TOP BRACKETS TO THE EDGE BEAMS AT THIS STAGE.



CTBRH

STEP 4.

Absco Skillion Carport - Model: CPSW50

- CONSTRUCTION PIVOT HOLE

USING THE COLUMN TOP BRACKET AS A TEMPLATE, DRILL THIS HOLE IN EACH COLUMN. IT WILL LATER BE USED AS THE PIVOT POINT TO LIFT UP THE STRUCTURE.

ALSO USING THE COLUMN TOP BRACKET AS A TEMPLATE, DRILL THESE FOUR HOLES THROUGH 'BOTH' SIDES OF THE COLUMN. JOIN BOTH SECTIONS TOGETHER WITH FOUR M10 X 80mm LONG BOLTS, NUTS AND WASHERS.

NOTE: (16 x 80mm LONG BOLTS SUPPLIED = 4 PER COLUMN)

M10 x 20mm BOLTS ARE USED AT ALL OTHER LOCATIONS. **CTBLH** USING THE COLUMN BASE BRACKETS AS TEMPLATES, DRILL FOUR 10mm \cap HOLES IN EACH COLUMN. JOIN TWO COLUMN BASE BRACKETS TO EACH COLUMN WITH FOUR M10 x 20mm BOLTS, NUTS AND WASHERS. JOIN THE 2720mm CROSSBEAM TO THE COLUMN TOP BRACKETS WITH FOUR M10 x 20mm BOLTS, NUTS AND WASHERS AT EACH END.







STEP 6.

YOU WILL REQUIRE ASSISTANCE FROM ANOTHER PERSON TO LIFT THE ROOF STRUCTURE UP.

PIVOT HOLE CONNECTION.

REFER BACK TO STEP 4. LOCATE ONE M10 x 20mm BOLT, NUT AND WASHER AT EACH END OF THE CROSS BEAM/COLUMN ASSEMBLY TO THE PRE-DRILLED HOLE IN THE EDGE BEAM. ONLY TIGHTEN FINGER TIGHT TO ALLOW THE SECTIONS TO MOVE DURING LIFTING.

WITH ONE PERSON HOLDING EACH COLUMN, BEGIN TO LIFT THE ROOF STRUCTURE.

CONTINUE LIFTING THE ROOF STRUCTURE UNTIL A SECOND BOLT CAN BE FASTENED TO THE COLUMN TOP BRACKET AND EDGE BEAM.

> SECURE AND TIGHTEN ALL FOUR M10 x 20mm BOLTS NUTS AND WASHERS AT EACH END OF THE CROSS BEAM.





REPEAT THE LIFTING PROCEDURE FOR THE FRONT CROSS BEAM ASSEMBLY. WITH THE STRUCTURE NOW STANDING, POSITION AND SECURE THE CENTRE CROSS BEAM ASSEMBLY.

DOUBLE CHECK TO ENSURE THAT ALL BOLTS AND NUTS (INCLUDING SPLICE PLATE CONNECTIONS) ARE STILL FULLY TIGHTENED. IT IS ALSO VERY IMPORTANT (ALTHOUGH AWKWARD) TO ENSURE THAT THE BOLTS SECURING THE BASE BRACKETS TO THE COLUMNS ARE VERY TIGHT, TO REDUCE THE AMOUNT OF SWAY IN THE STRUCTURE.

STEP 7.

TO THE DIMENSIONS SHOWN ON THE FRONT PAGE OF THIS INSTRUCTION, SECURE THE FRAME TO THE CONCRETE SLAB WITH THE M12 DYNABOLTS PROVIDED. YOU WILL REQUIRE AN M12 MASONRY DRILL BIT TO DRILL INTO THE CONCRETE.





STEP 9.

SECURE 8 x 2820mm ROOF SHEETS TO FRAME.

ALL ROOF SHEETS ARE PAN-FIXED. ie SCREW THROUGH THE FLAT PAN OF THE SHEET INTO THE FRAMEWORK.

SLIP THE NEOPRENE WASHERS ON TO THE SELF DRILLING SCREWS FOR A WATER TIGHT CONNECTION.

THE EDGE ALONG THE LENGTH OF THE SHEET SHOULD BE HARD UP AGAINST THE INSIDE OF THE EDGE BEAM ON BOTH SIDES OF THE STRUCTURE. SECURE WITH SCREWS ALONG THIS EDGE AT 150mm CENTRES.





STEP 10



CAN BE DONE BY DRILLING A SERIES OF 3mm HOLES

AND THEN PUNCHING OUT THAT SECTION. FIT THE GALVANISED GUTTER DROP AND SEAL WITH SILICONE. FASTEN THE DOWNPIPES AND BENDS AS SHOWN. BEND THE 270 x 25 FLAT STRIPS (DS) TO SHAPE AND FASTEN THE DOWNPIPE TO THE COLUMNS.

IMMEDIATE MAINTENANCE:

CLEAN DOWN ALL ROOF AND EDGE/CROSS BEAM INTERNAL AREAS. METAL FILINGS FROM DRILLING HOLES AND USING SELF DRILLING SCREWS CAN CAUSE DISCOLORATION AND CORROSION TO ROOF SHEETS AND GALVANIZED FRAMING SECTIONS.





Form 15—Compliance Certificate for building Design or Specification

NOTE	This is to be used for the purposes of section 10 of the <i>Building Act</i> 1975 and/or section 46 of the <i>Building Regulation 2006</i> .
	RESTRICTION: A building certifier (class B) can only give a compliance certificate about whether building work complies with the BCA or a provision of the QDC. A building certifier (Class B) can not give a certificate regarding QDC boundary clearance and site cover provisions.
. Property description his section need only be completed if dails of streat address and property	Street address (include no., street, suburb / locality & postcode)
escription are applicable.	
G. In the case of (standard/generic)	Lot & plan details (attach list if necessary)
tio and carport systems this section	
ay not be applicable.	In which local government area is the land situated?
e description must identify all land the biect of the application	
e lot & plan details (eg. SP / RP) are	
the plan is not registered by title, provide evious lot and plan details.	
Description of component/s certified early describe the extent of work covered by	ABSCO standard range of kit-form garages, carports, awnings.
s certificate, e.g. all structural aspects of the eel roof beams.	
Basis of certification	
Basis of certification tail the basis for giving the certificate and the tent to which tests, specifications, rules, andards, codes of practice and other	The structural design for the range of ABSCO kit-form buildings has been undertaken in accordance with the following design conditions.
Basis of certification stail the basis for giving the certificate and the tent to which tests, specifications, rules, andards, codes of practice and other iblications, were relied upon.	The structural design for the range of ABSCO kit-form buildings has been undertaken in accordance with the following design conditions. NCC - Building Code of Australia (2016) – Volume 2 – Class 1 and Class
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The *Building Act 1975* is administered by the Department of Housing and Public Works

Queensland

Government

	 in accordance with AS4055 Table 1 for topographic classification T1, for the relevant wind region. NJA Consulting will not be providing site specific wind data as part of this certification. Should the certifier require site specific wind data, then they shall refer the applicant to a suitably qualified local building practitioner. This certificate shall not be construed as relieving any party of their contractual responsibilities, and is valid until 28 April 2017. Beyond this date the certification will be carried by another engineering consultant.
	N2, N3 garages: +0.2, -0.3 (non-cyclonic) C1 garages: +0.7, -0.65 (cyclonic) The structures are rated to meet the wind classifications nominated on the plans. The onus is on the building certifier or local authority to ensure that the wind classification relevant to the intended siting of the ABSCO product does not exceed the product's individual wind rating. The site wind classification shall be determined
G	Structure Importance Level: 2 Annual probability of exceedance: 1:500 Topographic Classification: T1
	The following criteria are applicable to structure wind loads:
	 This certificate relates to the structural aspects of the building only. The slab and footings nominated on the drawings are suitable for class A, S, M & H site classifications (awnings, garden sheds and carports), class A, S & M site classifications (garages) in accordance with AS2870. The applicant shall seek advice from a local building practitioner should the site classification fall outside of this range ie class H, E and P sites. The building shall be constructed in accordance with the design drawings and ABSCO assembly manuals. NJA accept no responsibility whatsoever for the performance of structures not constructed in accordance with these documents. The structures are designed to sustain the wind loads nominated on the drawing for Group 1, Group 2 and Group 3 wind loadings. The site wind classification shall be derived in accordance with AS4055. Structural wind loads have been derived using AS1170.2-2011.
	Scope or Limitations
	Carports: Drawings: 06205-003-CP01, CP02A, CP03 to CP06, CP07A, CP08, CP09 Awnings: Drawings: 06205-003-AW01A, AW02A, AW05 Garages: Drawings: 06205-003-GR01A, 02A, 03B to 11B, 12A, 13B, 14A, 15B Connections Drawings: 06205-003-CN01

The *Building Act 1975* is administered by the Department of Housing and Public Works



		Reference Number/s		*n= **	
				d ⁷	
s certificate must be signed by the individual essed by the building certifier as competent.	DANA			Feb 2017	
Signature of competent person	Licence or registration number (<i>if ap</i> RPEQ 5453 Signature	plicable)	Date		
he certifier must assess the individual as ving appropriate experience, qualifications or is to be able to give the help. The chief executive issues any guidelines for sessing a competent person, the building	Postal address PO Box 64 Springwood QLD	· · · · · ·		Postcode 4127	
I, experience and qualifications in the lect. The competent person must also be istered or licensed under a law applying in State to practice the aspect.	Phone no. <i>business hours</i> (07) 3208 4755 Email address	Mobile no.		Fax no. (07) 3208 1822	
Competent person details ompetent person for building work, means a son who is assessed by the building certifier the work as competent to practice in an lect of the building and specification design, he building work because of the individual's	Name (<i>in full</i>) Darren McDonald Company name (<i>if applicable</i>) NJA Consulting Pty Ltd		ontact pers	son	

12206-003-DMCD

24 June 2016

ABSCO **PO Box 119** ACACIA RIDGE QLD 4110

STRUCTURAL CERTIFICATION OF ABSCO PRODUCT RANGE

We refer to above matter. We hereby certify that the range of ABSCO products indicated on the drawings listed below are structurally satisfactory in accordance with the Australian Standards outlined in the Design Certificate Criteria section of this certificate.

DOCUMENTS ATTACHED (as built drawings or latest amendments)

Drawing Nos: This certificate covers the full range of ABSCO products as outlined on the following drawings:

NJA Consulting Pty Ltd	Drawings:
Garden Sheds:	Drawings: 06205-003-GS01C, GS02C, GS03B, GS04B, GS05A,
	GS06A, GS07A, GS08B, GS09 to GS11, GS12A, GS13A, GS14B, GS15,
GS16B, GS17.	
Carports:	Drawings: 06205-003-CP01, CP02A, CP3 to CP06, CP07A, CP08, CP09
Awnings	Drawings: 06205-003-AW01A, AW02A, AW05
Garages	Drawings: 06205-003-GR01A, GR02A, GR03B to GR11B, GR12A,
GR13B, GR14A, GR15B	
Connections	Drawings: 06205-003-CN01
	-

Other Related Documents:

1. PI INSURANCE CERTIFICATE (attached)

DESIGN CERTIFICATE CRITERIA

The structural design for the range of ABSCO kit-form buildings has been undertaken in accordance with the following design conditions.

- Building Code of Australia Volume 2 (2016) Class 1 and Class 10 Buildings P
- Þ AS1170.0-2002 - Structural design actions Part 0 General Principles
- Þ AS1170.1-2002 - Structural design actions Part 1 Permanent, imposed and other actions
- AS1170.1-2011 Structural design actions Part 2 Wind Actions AAA
- AS1170.3-2003 Snow Loads
- AS3600 2009 Concrete Structures
- AS4100 1998 Steel Structures AAA
- AS4055 2012- Wind loads for Housing AS4600 - 2005 - Cold-formed Steel Structures
- AS2870 2011 Residential Slabs and Footings Construction.
- AA Ramset - Specifiers Resource Book
- **Buildex Fasteners - Technical Specification**
- Þ Low-High-Low testing of cyclonic area roof sheeting by University of Adelaide.

Class of Building (BCA): 10a Building Importance Level: (BCA Table B1.2a): 2

Annual Probability of Exceedance for wind: 1 in 500



NJA Consulting Pty Ltd ACN 089 515 720

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ABSCO INDUSTRIES

COMMENTS / EXCLUSIONS (Exclusions to this Certificate must be clearly identified).

- This certificate relates to the structural aspects of the building only.
- The slab and footings nominated on the drawings are suitable for class A, S, M & H site classifications (awnings, garden sheds and carports), class A, S & M site classifications (garages) in accordance with AS2870. The applicant shall seek advice from a local building practitioner should the site classification fall outside of this range ie class H, E and P sites. The founding material shall have a minimum safe bearing capacity of 75kPa.
- The building shall be constructed in accordance with the design drawings and ABSCO assembly manuals. NJA accept no responsibility whatsoever for the performance of structures not constructed strictly in accordance with these documents.
- The structures are designed to sustain the wind loads nominated on the drawing for Group 1, Group 2 and Group 3 wind loadings. The site wind classification shall be derived in accordance with AS4055. Structural wind loads have been derived using AS1170.2-2011.

The following criteria are applicable to structure wind loads:

Structure Importance Level: 2

Annual probability of exceedance: 1:500

 Topographic Classification: T0 and T1 (ref AS4055) generally flat site with ground slope up to 1 in 10

 Internal Pressure Coefficients

 N2, N3 garages: +0.2, -0.3 (non-cyclonic)

C1 garages: +0.7, -0.3 (cyclonic) Garden Sheds: 0.0, -0.2 (all regions)

Garden sheds are considered to be effectively sealed during major wind events. Roller doors are excluded from certification, and are assumed to have blown in during cyclonic wind events.

The structures are rated to meet the wind classifications nominated on the plans. The onus is on the building certifier or local authority to ensure that the wind classification relevant to the intended siting of the ABSCO product does not exceed the product's individual wind rating. The site wind classification shall be determined in accordance with AS4055 Table 1 for topographic classification T0 or T1, for the relevant wind region. NJA Consulting will not be providing site specific wind data as part of this certification. Should the certifier require site specific wind data, then they shall refer the applicant to a suitably qualified local building practitioner.

- All glazed windows and doors to be designed and certified by window manufacturer. The glazing shall be designed to the Wind Classification System specified above, as defined in AS4055-1992. The glazing manufacturer shall satisfy the requirements of AS2047 for the specified Wind Classification System. The wind classification system has been determined on the basis of the following additional assumptions:-
- Flat site. Where the site is not generally flat (i.e. average slope steeper than 1:10), advise the certifying
 engineer for a possible reclassification of the glazing requirements.
- This certificate shall not be construed as relieving any party of their contractual responsibilities.

NJA have prepared a range of engineering drawings for ABSCO garden sheds, GS01 to GS16 inclusive. These drawings nominate the maximum size garden shed structure, in length, width, and height permissible for each shed design. NJA acknowledge that for each garden shed design, as detailed on engineering plans GS01 to GS16 inclusive, that garden shed structures smaller in size are acceptable, providing that all structural elements are fully adhered to, including internal steel framework, which can be proportionately reduced in size and spacing, in accordance with the reduced garden shed size.

Yours faithfully

LANG /

Darren McDonald B.E. (Civil) RPEQ Senior Structural Engineer - Director For an on behalf of NJA Consulting Pty Ltd

Building Act 1993 Building Regulations 2006

REGULATION 1507: CERTIFICATE OF COMPLIANCE-DESIGN

Building Certifier or Local Authority (applicant to complete)

Relevant building surveyor:

Postal address: Postcode:

From

Building practitioner: Category and class: **Engineer - Civil** Postal address: Postcode: Darren McDonald Registration No: EC 25680 PO Box 64 Springwood QLD 4127

Property details (applicant to complete)

Number:	Street/road:	
City/suburb/town:		
Lot/s:		LP/PS:
Volume:		Folio:
Crown allotment:		Section:
Parish:		County:
Municipal District:		

COMPLIANCE

I did prepare the design and I certify that the part of the design described as ABSCO garages, carports and awnings comply with the following provisions of the Regulations.

- NCC Building Code of Australia (2016) Volume 2 Class 1 and Class 10 Buildings
- AS1170.0-2002 Structural design actions Part 0 General Principles
- AS1170.1-2002 Structural design actions Part 1 Permanent, imposed and other actions
- AS1170.1-2011 Structural design actions Part 2 Wind Actions
- AS1170.3-2003 Snow Loads
- AS3600 2009 Concrete Structures
- AS4100 1998 Steel Structures
- AS4055 2012 Wind loads for Housing
- AS4600 2005 Cold-formed Steel Structures
- AS2870 2011 Residential Slabs and Footings Construction.
- Ramset Specifiers Resource Book
- Buildex Fasteners Technical Specification
- Low-High-Low testing of cyclonic area roof sheeting by University of Adelaide.



NJA Consulting Pty Ltd ACN 089 515 720

Suite 14, Level 1 Plaza Chambers 3-15 Dennis Road PO Box 64 Springwood QLD 4127

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 (07) 3208 4755

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 admin@nja.com.au

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DESIGN DOCUMENTS

NJA Consulting Pty Ltd Drawings Dated: OCTOBER 2006 REV: 0 UNO

Carports: Awnings: Garages: Connections	Drawings: 06205-003-CP01, CP02A, CP03 to CP06, Drawings: 06205-003-AW01A, AW02A, AW05 Drawings: 06205-003-GR01A, 02A, 03B to 11B, 12A, Drawings: 06205-003-CN01	CP07A, CP08, CP09 13B, 14A, 15B
Specifications: N/A	Prepared by:	Date:
Computations: N/A	Prepared by:	Date:
Test reports: N/A	Prepared by:	Date:

SCOPE OR LIMITATIONS

- > This certificate relates to the structural aspects of the building only.
- The slab and footings nominated on the drawings are suitable for class A, S, M & H site classifications (awnings, garden sheds and carports), class A, S & M site classifications (garages) in accordance with AS2870. The applicant shall seek advice from a local building practitioner should the site classification fall outside of this range ie class H, E and P sites. The founding material shall have a minimum safe bearing capacity of 75kPa.
- The building shall be constructed in accordance with the design drawings and ABSCO assembly manuals. NJA accept no responsibility whatsoever for the performance of structures not constructed strictly in accordance with these documents.
- The structures are designed to sustain the wind loads nominated on the drawing for Group 1, Group 2 and Group 3 wind loadings. The site wind classification shall be derived in accordance with AS4055. Structural wind loads have been derived using AS1170.2-2002.

The following criteria are applicable to structure wind loads:

Structure Importance Level: 2 Annual probability of exceedance: 1:500 Topographic Classification: T1 Internal Pressure Coefficients: N2, N3 garages: +0.2, -0.3 (non-cyclonic) C1 garages: +0.7, -0.65 (cyclonic)

The structures are rated to meet the wind classifications nominated on the plans. The onus is on the building certifier or local authority to ensure that the wind classification relevant to the intended siting of the ABSCO product does not exceed the product's individual wind rating. The site wind classification shall be determined in accordance with AS4055 Table 1 for topographic classification T1, for the relevant wind region. NJA Consulting will not be providing site specific wind data as part of this certification. Should the certifier require site specific wind data, then they shall refer the applicant to a suitably gualified local building practitioner.

This certificate shall not be construed as relieving any party of their contractual or duty of care responsibilities, and is valid until 28 April 2017. Beyond this date the certification is to be carried by another consultant.

Signature

1219)

Signed: Darren McDonald EC25680

Date: 15 Feb 2017

for and on behalf of NJA Consulting Pty Ltd

Our Ref: 12206-003: DMCD

4 February 2016

ABSCO PO Box 119 ACACIA RIDGE QLD 4110

Attn: Ms Lisa Holtby

Dear Lisa

ABSCO KIT-FORM BUILDING PRODUCTS – REGULATION 88 - CERTIFICATE OF INDEPENDENT TECHNICAL EXPERT

We refer to the above matter.

We advise that NJA Consulting have been providing structural engineering certification services to ABSCO since 2006.

The current structural designs were originally prepared and certified by Cardno prior to NJA being engaged as the structural engineering certifier for ABSCO. The structural design verification process was undertaken by NJA Consulting based on the Cardno designs prior to providing certification services.

The structural design verification process has been undertaken, which complies with the following Australian standards and design conditions:

- NCC Building Code of Australia (2015) Volume 2 Class 1 and Class 10 Buildings
- AS1170.0-2002 Structural design actions Part 0 General Principles
- AS1170.1-2002 Structural design actions Part 1 Permanent, imposed and other actions
- AS1170.1-2011 Structural design actions Part 2 Wind Actions
- AS3600 2009 Concrete Structures
- AS4100 1998 Steel Structures
- AS4055 2012 Wind loads for Housing
- AS4600 2005 Cold-formed Steel Structures
- AS2870 2011 Residential Slabs and Footings Construction.
- Ramset Specifiers Resource Book
- Buildex Fasteners Technical Specification
- Low-High-Low testing of cyclonic area roof sheeting by University of Adelaide.

The current product range was originally indicated on Cardno drawings as follows:

 Sheds/Garages:
 1685/11/01-045, 049 to 050, 200 to 211, 224 to 227

 Garden Sheds:
 1685/11/01-017 to 019, 028, 031, 038, 039, 040, 055, 056, 059, 062

 Awnings:
 1685/11/01-060, 063, 231, 232

 Carports:
 1685/11/01-041 to 044, 051, 052, 100, 101



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The ABSCO product range is currently indicated on NJA drawings as follows:

 Garden Sheds:
 06205-003-GS01C, GS02C, GS03B, GS04B, GS05B, GS06A, GS07A, GS08B, GS09 to GS11, GS12B, GS13B, GS14C, GS15, GS16C, GS17

 Carports:
 06205-003-CP01, CP02A, CP03 to CP06, CP07A, CP08, CP09

 Awnings:
 06205-003-AW01A, AW02A, AW05

 Garages:
 06205-003-GR01A, 02A, 03B to 11B, 12A, 13B, 14A, 15B

 Connections:
 06205-003-CN01

If constructed in accordance with the above plans the range of structures indicated will comply with the relevant parts of the Building Code of Australia, and should be structurally sound.

We advise as independent technical experts;

- 1. We are not direct employees of the product manufacturer or building owner;
- We were not involved in any aspect whatsoever of the product development or original design process by the previous consultant;
- We have no pecuniary interest whatsoever in any aspect of proposed developments involving ABSCO products;
- 4. We have qualifications (Bachelor Degree suitable for corporate membership of the Institution of Engineers Australia) that qualify NJA Consulting Pty Ltd to act as an independent technical expert under regulation 85 of the South Australian Development Regulations.

Specifically in relation to the range of ABSCO Products the following limitations apply;

SCOPE OR LIMITATIONS

- This certificate relates to the structural aspects of the building only.
- The slab and footings nominated on the drawings are suitable for class A, S, M & H site classifications (awnings, garden sheds and carports), class A, S & M site classifications (garages) in accordance with AS2870. The applicant shall seek advice from a local building practitioner should the site classification fall outside of this range ie class H, E and P sites. The founding material shall have a minimum safe bearing capacity of 75kPa.
- The building shall be constructed in accordance with the design drawings and ABSCO assembly manuals. NJA accept no responsibility whatsoever for the performance of structures not constructed strictly in accordance with these documents.
- The structures are designed to sustain the wind loads nominated on the drawing for Group 1, Group 2 and Group 3 wind loadings. The site wind classification shall be derived in accordance with AS4055. Structural wind loads have been derived using AS1170.2-2002.

The following criteria are applicable to structure wind loads:

Structure Importance Level: 2 Annual probability of exceedance: 1:500 Topographic Classification: T1

Internal Pressure Coefficients:

N2, N3 garages: +0.2, -0.3 (non-cyclonic) C1 garages: +0.7, -0.3 (cyclonic) Garden Sheds: 0.0, -0.2 (all regions)

Garden sheds are considered to be effectively sealed during major wind events.

The structures are rated to meet the wind classifications nominated on the plans. The onus is on the building certifier or local authority to ensure that the wind classification relevant to the intended siting of the ABSCO product does not exceed the product's individual wind rating. The site wind classification shall be determined in accordance with AS4055 Table 1 for topographic classification T1, for the relevant wind region. NJA Consulting will not be providing site specific wind data as part of this certification. Should the certifier require site specific wind data, then they shall refer the applicant to a suitably qualified local building practitioner.

> This certificate shall not be construed as relieving any party of their contractual or duty of care responsibilities.

The range of engineering drawings for ABSCO garden sheds is indicated as GS01 to GS16 inclusive. These drawings nominate the maximum size garden shed structure, in length, width, and height permissible for each shed design. NJA acknowledge that for each garden shed design, as detailed on engineering plans GS01 to GS16 inclusive, that garden shed structures smaller in size are acceptable, providing that all structural elements are fully adhered to, including internal steel framework, which can be proportionately reduced in size and spacing, in accordance with the reduced garden shed size.

Please contact us if you have any further queries in relation to this matter.

Yours faithfully

BI

Darren McDonald – Senior Structural Engineer (Director)

B.E. (Civil) RPEQ 5453 QLD 24619ES NT EC25680 VIC CC 4481E TAS

for and on behalf of NJA Consulting Pty Ltd

(BUILDING W	VORK)	OINZIRLE DE	SIGNEK		Sections62(&66(b)
To:				Building Surveyo Address	Form
		· · · · · · · · · · · · · · · · · · ·		Suburb/postcode	(č f
Accredited Des	igner details:				
Name:	Darren McDona	ald		Category:	CIVIL
Business name:	NJA Consulting	Pty Ltd		Phone No:	07 3208 4755
Business address:	PO Box 64 (3-1 Springwood	5 Dennis Road)		
	QLD		4127	Fax No:	07 3208 1822
Accreditation No:	CC-4481E	Email address:	d.mcdonald	l@nja.com.a	U
Details of prop	osed work: (to k	e completed	by others)		
Owner:	<u></u>			Designer's proje	ct
Address:					Lot No:
]	
Type of work:	(e.g. new building/ altera	tion/ addition/ repair/	re-erection/ other	2	
	New kit-form st	teel structure (Carport, Awi	ning or Gara	ge)
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Standards, codes or guidelines relied on in design process:

Substance of Certificate:

The structural design for the range of ABSCO kit-form buildings has been undertaken in accordance with the following design conditions.

- NCC Building Code of Australia (2016) Volume 2 Class 1 and Class 10 Buildings
- > AS1170.0-2002 Structural design actions Part 0 General Principles
- > AS1170.1-2002 Structural design actions Part 1 Permanent, imposed and other actions
- AS1170.2-2011 Structural design actions Part 2 Wind Actions
- AS1170.3-2003 Snow Loads
- AS3600 2009 Concrete Structures
- AS4100 1998 Steel Structures
- AS4055 2012 Wind loads for Housing
- AS4600 2005 Cold-formed Steel Structures
- AS2870 2011 Residential Slabs and Footings Construction.
- Ramset Specifiers Resource Book
- Buildex Fasteners Technical Specification
- Low-High-Low testing of cyclonic area roof sheeting by University of Adelaide. Test results available on request.

Scope or Limitations

- > This certificate relates to the structural aspects of the building only.
- The slab and footings nominated on the drawings are suitable for class A, S, M, and H site classifications (awnings, garden sheds and carports), class A, S & M site classifications (garages) in accordance with AS2870. The applicant shall seek advice from a local building practitioner should the site classification fall outside of this range i.e. class E and P sites. The foundation material shall have a minimum safe bearing capacity of 75 kPa.
- The building shall be constructed in accordance with the design drawings and ABSCO assembly manuals. NJA accept no responsibility whatsoever for the performance of structures not constructed in accordance with these documents.
- The structures are designed to sustain the wind loads nominated on the drawing for Group 1, Group 2 and Group 3 wind loadings. The site wind classification shall be derived in accordance with AS4055. Structural wind loads have been derived using AS1170.2-2002.

The following criteria are applicable to structure wind loads:

Structure Importance Level: 2 Annual probability of exceedance: 1:500 Topographic Classification: T1 Internal Pressure Coefficients N

N2, N3 garages: +0.2, -0.3 (non-cyclonic) C1 garages: +0.7, -0.65 (cyclonic)

The structures are rated to meet the wind classifications nominated on the plans. The onus is on the building certifier or local authority to ensure that the wind classification relevant to the intended siting of the ABSCO product does not exceed the product's individual wind rating. The site wind classification shall be determined in accordance with AS4055 Table 1 for topographic classification T1, for the relevant wind region.

NJA Consulting will not be providing site specific wind data as part of this certification. Should the certifier require site specific wind data, then they shall refer the applicant to a suitably qualified local building practitioner.

This certificate shall not be construed as relieving any party of their contractual responsibilities, and is valid until 28 April 2017. Beyond this date the certification shall be carried by another consultant.

Any other relevant documentation: NIL

Director of Building Control - date approved: 28 November 2012

Building Act 2000 - Approved Form No 35A

Attribution as d	lesigner:		
I was responsible for	the design of this building or building	work.	<u> </u>
Designer:	Signed:		Date: 15 Feb 2017
		CCCC	
F			
		50	
		LZ	

NORTHERN TERRITORY OF AUSTRALIA **BUILDING ACT** SECTION 40 - CERTIFICATE OF COMPLIANCE - STRUCTURAL DESIGN

Owner (if known):	
ot/Portion Number:	Address:
ocation:	Town / Hundred :

Drawing Nos: Th	This certificate covers the full range of ABSCO products as outlined on the following drawings:			
NJA Consulting P	ty Ltd-Drawings:			
Carports:	Drawings: 06205-003-CP01, CP02A, CP3 to CP06, CP07A, CP08, CP09			
Awnings	Drawings: 06205-003-AW01A, AW02A, AW05			
Garages	Drawings: 06205-003-GR01A, GR02A, GR03B to GR11B, GR12A, GR13B, GR14A, GR15			
Connections	Drawings: 06205-003-CN01			
Other Related Docu	ments:			
1 Schedule o	finspections : see over			
2. PLINSUBANCE CERTIFICATE (attached)				

DESIGN CERTIFICATE CRITERIA

The structural design for the range of ABSCO kit-form buildings has been undertaken in accordance with the following design conditions.

- NCC Building Code of Australia (2016) Volume 2 Class 1 and Class 10 Buildings P
- AS1170.0-2002 Structural design actions Part 0 General Principles X
- Þ AS1170.1-2002 - Structural design actions Part 1 Permanent, imposed and other actions
- > AS1170.1-2011 - Structural design actions Part 2 Wind Actions
- AA AS1170.3-2003 - Snow Loads
- AS3600 2009 Concrete Structures
- × AS4100 - 1998 - Steel Structures
- > AS4055 - 2012 - Wind loads for Housing
- Þ AS4600 - 2005 - Cold-formed Steel Structures
- > AS2870 - 2011 - Residential Slabs and Footings - Construction.
- Þ Ramset - Specifiers Resource Book
- **Buildex Fasteners Technical Specification** A
- Þ Low-High-Low testing of cyclonic area roof sheeting by University of Adelaide.

Class of Building (BCA): 10a

Building Importance Level: (BCA Table B1.2a): 2

Annual Probability of Exceedance for wind: 1 in 500

Revised 31/7/14

No changes to the declaration are permitted

Page 1 of 3

AA	This certificate relates to the structural aspects of the building only. The slab and footings nominated on the drawings are suitable for class A, S, M & H site classifications (awnings, gard sheds and carports), class A, S & M site classifications (garages) in accordance with AS2870. The applicant shall se advice from a local building practitioner should the site classification fall outside of this range is class H, E and P site The founding material shall have a minimum safe bearing capacity of 75kPa.
7	no responsibility whatsoever for the performance of structures not constructed strictly in accordance with the documents.
Þ	The structures are designed to sustain the wind loads nominated on the drawing for Group 1, Group 2 and Group 3 wi loadings. The site wind classification shall be derived in accordance with AS4055. Structural wind loads have been deriv using AS1170.2-2002.
Th	e following criteria are applicable to structure wind loads:
St	ructure Importance Level: 2
Ar	nual probability of exceedance: 1:500
To	pographic Classification: T1
Int	ernal Pressure Coefficients N2, N3 garages: +0.2, -0.3 (non-cyclonic)
	C1 garages: +0.7, -0.3 (cyclonic)
Th	e structures are rated to meet the wind classifications nominated on the plans. The onus is on the building certifier or loc
au pr	thority to ensure that the wind classification relevant to the intended siting of the ABSCO product does not exceed t oduct's individual wind rating. The site wind classification shall be determined in accordance with AS4055 Table 1
toj as	pographic classification T1, for the relevant wind region. NJA Consulting will not be providing site specific wind date part of this certification. Should the certifier require site specific wind date, then they shall refer the applicant
21	suitably qualified local building practitioner.
>	All glazed windows and doors to be designed and certified by window manufacturer. The glazing shall be design to the Wind Classification System specified above, as defined in AS4055-1992. The glazing manufacturer shall satis the requirements of AS2047 for the specified Wind Classification System. The wind classification system has be determined on the basis of the following additional assumptions:-
> •	All glazed windows and doors to be designed and certified by window manufacturer. The glazing shall be design to the Wind Classification System specified above, as defined in AS4055-1992. The glazing manufacturer shall satis the requirements of AS2047 for the specified Wind Classification System. The wind classification system has be determined on the basis of the following additional assumptions:- Flat site. Where the site is not generally flat (i.e. average slope steeper than 1:10), advise the certifying engineer a possible reclassification of the glazing requirements.
> • 1	All glazed windows and doors to be designed and certified by window manufacturer. The glazing shall be design to the Wind Classification System specified above, as defined in AS4055-1992. The glazing manufacturer shall satis the requirements of AS2047 for the specified Wind Classification System. The wind classification system has be determined on the basis of the following additional assumptions:- Flat site. Where the site is not generally flat (i.e. average slope steeper than 1:10), advise the certifying engineer a possible reclassification of the glazing requirements. his certificate shall not be construed as relieving any party of their contractual responsibilities and is valid until 28 Ap D17. Beyond the date the certification will be carried by another engineering consultant.
⊳ • 1	All glazed windows and doors to be designed and certified by window manufacturer. The glazing shall be design to the Wind Classification System specified above, as defined in AS4055-1992. The glazing manufacturer shall satis the requirements of AS2047 for the specified Wind Classification System. The wind classification system has be determined on the basis of the following additional assumptions:- Flat site. Where the site is not generally flat (i.e. average slope steeper than 1:10), advise the certifying engineer a possible reclassification of the glazing requirements. his certificate shall not be construed as relieving any party of their contractual responsibilities and is valid until 28 Ap D17. Beyond the date the certification will be carried by another engineering consultant.

CERTIFICATION BY STRUCTURAL ENGINEER						
Company Name If certification issued on behalf NJA CONSULTING PTY LTD	of a corporation	Company NT Registra	Company NT Registration Number: 53639ES			
I certify that reasonable care has been taken to ensure that the structural engineering aspects of the works as described above have been designed in accordance with the requirements of the Building Code of Australia and the Northern Territory Building Regulations.						
Name (see *below) Darren John McDonald	Nominee/Individual NT Registration Number 24619ES	Signature	Date 15 Feb 2017			

* Name and registration number of nominee signing on behalf of the company or if no company, name of individual issuing certification.

Page 2 of 3

SCHEDULE OF STRUCTURAL INSPECTIONS (CERTIFIER TO DETERMINE REQUIREMENTS)

- [] 1. Completion of site preparation/site filling/excavations for footings prior to placement of any reinforcement or concrete.
- [] 2. Completion of preparations for placing of concrete strip footings including placement of reinforcement.
- [*] 3. Completion of preparations for placing concrete slabs including compaction of fill and sand blinding, placement of formwork, reinforcement, starter bars and cast in items.
- [] 4. Completion of preparations for placing of concrete pier footings including reinforcement (if any).
- [] 5. Starter bars and cast in items after placing of concrete and prior to any covering up work.
- [] 6 Reinforcement to walls completed prior to core filling (inspection holes and cleanout cores to be completed).
- [*]7. Structural steelwork and cold formed steelwork completed and prior to any covering up work. Floor framing system completed before floors are laid or underside is lined.
- [] 8. Suspended concrete floor slabs with formwork, reinforcement and cast in items completed, prior to placing of concrete.
- [] 9. Wall framing or blockwork wall core filling completed (with windows fixed in place) and roof framing with connections completed and prior to sheeting or lining.
 - Note: [] Prior lodgement of truss manufacturer's drawings, details and certification required. [] Prior lodgement of windows manufacturer's drawings including fixings and certification required.
- [] 10. Structural wall linings completed and prior to any covering up work.
- [] 11. Final inspection upon completion of all structural work including fixings of external roof and wall claddings, flashings, barges & vents.
- [] 12. Other Inspections

Important Information:

- The above inspections are required to be carried out by either the certifying engineer or the building certifier who issued the Building Permit for the work. (If no inspections are indicated refer to the certifying engineer for advice).
- 2) Where works are prescribed building works under the *NT Building Act*, the building certifier must be provided with a copy of the inspection record and no further works must be carried out by the builder until the building certifier issues a release to proceed with further works.
- Additional non-structural inspections may be required during the course of construction before the issue of an Occupancy Permit (refer to building certifier for requirements).
- Failure to obtain inspections may prevent the issue of an Occupancy Permit upon completion of the building works.

Page 3 of 3

LLOYD'S



ABN 42 127 786 823 AFSL 324767

CERTIFICATE OF CURRENCY

Insured:	NJA Consulting Ply Ltd				
Policy Type:	Professional Indemnity Insurance.				
Policy Number:	191182				
Sum Insured:	\$3,000,000 Costs Exclusive any one Claim, and \$6,000,000 Costs Exclusive for all Claims for the Policy Period.				
Business:	Consulting Engineers, Drafting, Expert Witness.				
Wording:	Nova Underwriting Pty Limited - Professional Indemnity [Nova PI Miscellaneous 12/14 Civil form].				
Policy Period:	From: *4:00pm on 8 th October 2016 To: *4:00pm on 8 th October 2017 [*Sydney time]				
Date: 06/10/2016	Signature: h chican States A.B.N. 42 127 786 823 AFSL 324767				
Signed for and on behalf of Nova Underwriting Pty Limited as agent for the Security.					
SECURITY: Novae Syndicate [NVA 2007], Pembroke Syndicate [PEM 4000] & Aegis [AES 1225] at Lloyd's.					
	Coverholder at LLOYD'S				

S:/Certificates of Currency//Templetes/PI



6-12 Activity St, Acacia Ridge Q 4110 PO Box 119 Acacia Ridge Q 4110 PH: +61 (0)7 3345 8100 FAX: +61 (0)7 3344 1191 ABN: 84 009 792 670 admin@absco.com.au

www.absco.com.au

AUSTRALIA PRODUCT WARRANTY AGAINST DEFECTS

Congratulations on your purchase of an ABSCO SHED

ABSCO SHEDS, including garden sheds, garden beds, aviaries, storage units, garages, awnings and carports are made using high quality Australian made steel.

We are pleased to advise we warrant that the steel coating will not rust, crack, flake peel or blister for 30 years from date of purchase, when installed within Australia.

This warranty does not apply to surface deterioration of panels caused by 'Swarf" (Tiny particles of steel debris left from cutting, grinding or drilling operations) that has not been removed after building construction, or as a result of contact with damp soil, chemicals, fertilisers or other corrosive substances.

This warranty covers any Absco product used for normal domestic use and installed in accordance with the installation instructions. The warranty does NOT cover Damage caused by storms, wind, rain snow or poor foundations.

This warranty does NOT cover ABSCO products installed in severe coastal, industrial or other highly corrosive environments. The warranty does not cover fasteners (screws, nuts, bolts, rivets, hasps or sliding padbolts).

The warranty is limited to replacement and delivery of components and does not include any labour or installation costs. The benefits given by the warranty are in addition to your other rights and remedies under a law in relation to the goods or services to which the warranty relates.

The warranty applies to the exclusion of all other representations, guarantees or warranties express or implied, our goods come with guarantees that cannot be excluded under the Australian consumer law and is not transferable. You are entitled to a replacement or refund for a major failure and for compensation for any other foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of an acceptable quality and the failure does not amount to a major failure. For further information go to http://www.consumerlaw.gov.au.

Please retain a proof of purchase (sales docket or invoice) or register your warranty within 30 days of purchase here: <u>www.absco.com.au/register_warranty.php</u>

In the unlikely event a warranty claim is made, it must be supported by photographic evidence and details of the defect, including component part numbers, together with proof of purchase documentation (or on-line registration of purchase) and forwarded to the address below. Upon receipt of the warranty claim, the Customer Service Manager will contact you within three business days to advise you of the assessment outcome of the claim, which may include your expenses incurred in making the claim.

THE CUSTOMER SERVICE MANAGER, ABSCO INDUSTRIES, PO BOX 119 ACACIA RIDGE QLD AUSTRALIA 4110

PHONE: 1800 029701 FAX: 07-33441191 EMAIL: warranty@absco.com.au

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ABSCO SHEDS - STORAGE GUIDELINES

ABSCO SHEDS include garden sheds, garden beds, storage units, aviaries, garages, awnings and carports.

ABSCO SHEDS are designed to be weatherproof for normal weather conditions. In the event of extreme weather conditions such as heavy rain, combined with high wind gusts, the ridge capping, sheeting joins, screw fixings etc., may exhibit minor deformations which may allow some water entry. These areas should be checked regularly to ensure that maximum strength and protection is maintained.

Other weather conditions such as extreme heat and extreme cold, moist or dry air can influence the effects of concrete floor moisture and/or condensation on the underside of the roof sheets.

ABSCO SHEDS and storage units are primarily used for storage of garden equipment such as lawnmowers, wheelbarrows, garden tools etc. Storage items that might be adversely affected by any of the above conditions may require additional protection such as being sealed or covered by plastic sheets and/or stacked above the concrete floor on timber slats.

Waterproof sealants may be used to offer further protection where required around joins and screw fixings, as can rubber door seals and other products which are available from most hardware outlets.

Placement of waterproof sealants (silicone) between the base of the shed and concrete slab is not recommended, as this process can have a reverse effect, preventing excess water from escaping, resulting with water accumulating and being trapped inside the shed.

Absco accepts no responsibility for water entry, floor moisture, condensation or the condition of the Contents inside your Absco steel building arising from any of the pre-mentioned weather conditions.