

## 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.
1. Property description	Street address (include no., street, suburb / locality & postcode)
This section need only be completed if details of street address and property	
description are applicable. EG. In the case of (standard/generic)	Postcode
pool design/shell manufacture and/or	Lot & plan details (attach list if necessary)
patio and carport systems this section may not be applicable.	In which local government area is the land situated?
	III WIIICH IOCAI government area is the land situated :
2. Description of component/s certified	
Clearly describe the extent of work covered by	Patio Roof Systems (Suitable for Class 1A Buildings) Including:
this certificate, e.g. all structural aspects of the steel roof beams.	-Sandwich Panel System
	-Timber and Steel Support Beams
	-Connection & Tie-down Details
	-Post Pad Footings
	CERTIFICATE VALID TO 31/12/2013
<b>3. Basis of certification</b> Detail the basis for giving the certificate and the extent to which tests, specifications, rules,	AS/NZS 1170.0, 1 & 2 - 2002 Structural Design Actions - Part 0: General Principles, - Part 1: Permanent, Imposed and Other Actions, - Part 2: Wind Actions
standards, codes of practice and other publications, were relied upon.	AS4055-2006 Wind Loads for Housing
,	AS1684.2-1999 Residential Timber-Framed Construction - Part 2 Non-Cyclonic Areas
	AS1720.1-1997 Timber Structures Part 1: Design Methods
	AS2870.1-1996 Residential Slabs and Footings - Construction
	AS3600-2001 Concrete Structures
	AS3700-2001 Masonry Structures
	AS4100-1998 Steel Structures
	AS/NZS 4600:1996 Cold Formed Steel Structures
	AS1562.1-1992 Design & Installation of Sheet Roof & Wall Cladding, Part 1: Metal
	AS4040.3-1992 Methods of Testing Sheet Roof & Wall Cladding, Part 2: Non-Cyclonic
<b>4. Reference documentation</b> Clearly identify any relevant documentation, e.g. numbered structural engineering plans.	Ausdeck Patios & Roofing Insulated Roofing Engineering and Construction Manual For Non-Cyclonic Areas:
	Reference Numbers Q04-054 Sheets: 1A (Oct 04), 2 to 7 (Oct 04), 8A (Oct 04), 9 (Oct 04), 10A (Oct 04), 11A (Nov '06), 12 to 14 (Oct 04), 15A (Dec 04), 16 (Oct 04), 17 & 18(Nov 06)
	Neil McKenzie & Associates Pty Ltd Maximum Spans of Auseck Insulated Roofing – Ribbed and Corrugated Profiles Q10-271
LOCAL GOVERNMENT USE ONLY	
Date received	Reference Number/s



5. Building certifier reference number	Building certifier reference number	
6. Competent person details  A competent person for building work, means a person who is assessed by the building certifier for the work as competent to practise in an aspect of the building and specification design, of the building work because of the individual's skill, experience and qualifications in the aspect. The competent person must also be registered or licensed under a law applying in the State to practice the aspect.  If no relevant law requires the individual to be licensed or registered to be able to give the help, the certifier must assess the individual as having appropriate experience, qualifications or	Name (in full) Paul Conrad Wisowaty{B.E.(Civil)} Company name if applicable Neil McKenzie & Associates Pty. Ltd. Phone no. business hours (07) 3862 1886 Email address paul@neilmckenzie.com.au Postal address	Contact person Paul Wisowaty  no. Fax no. 158 027 (07) 3862 1397
skills to be able to give the help.  If the chief executive issues any guidelines for	14/699A Sandgate Road Clayfield	Postcode 4011
assessing a competent person, the building certifier must use the guidelines when assessing the person.	Licence class  R.P.E.Q	Licence number 7908
7. Signature of competent person This certificate must be signed by the individual assessed by the building certifier as competent.	Signature  P. Wisawaly	Date 13/06/2013

## NEIL McKENZIE & ASSOCIATES PTY. LTD.

A.C.N 010 816 690 CIVIL AND STRUCTURAL CONSULTING ENGINEERS

Suite 14, Clayfield Courtyard, 699A Sandgate Road, Clayfield, Qld. 4011

Phone: (07) 3862 1886 Fax: (07) 3862 1397

## Structural Compliance Certificate for Building Design or Specification

This certificate is valid to 31/12/2013

1. Property Description

Building Description: - Patio Roof System

Client: - Ausdeck Patios & Roofing Pty Ltd

Site Address: - Various Locations

Lot & Plan Details:
Local Government:-

### 2. Description of Components Certified

The following structural components are covered by this certificate:

Patio Roof Systems (Suitable for Class 1A Buildings) Including:

-Sandwich Panel System, Timber and Steel Support Beams, Connection & Tie-down Details, Post Pad Footings

### 3. Basis of Certification

The Following Codes of Practice/Documents/Reports were applied in the design of this Structure: AS/NZS 1170.0, 1 & 2 - 2002 Structural Design Actions - Part 0: General Principles, - Part 1: Permanent, Imposed and Other Actions, - Part 2: Wind Actions

AS4055-2006 Wind Loads for Housing

AS1684.2-1999 Residential Timber-Framed Construction - Part 2 Non-Cyclonic Areas

AS1720.1-1997 Timber Structures Part 1: Design Methods

AS2870.1-1996 Residential Slabs and Footings - Construction

AS3600-2001 Concrete Structures

AS3700-2001 Masonry Structures

AS4100-1998 Steel Structures

AS/NZS 4600:1996 Cold Formed Steel Structures

AS1562.1-1992 Design & Installation of Sheet Roof & Wall Cladding, Part 1: Metal AS4040.3-1992 Methods of Testing Sheet Roof & Wall Cladding, Part 2: Non-Cyclonic

### 4. Documentation Certified

The following documentation is covered by this certificate:

Ausdeck Patios & Roofing Insulated Roofing Engineering and Construction Manual For Non-Cyclonic Areas: Reference Numbers Q04-054 Sheets: 1A (Oct 04), 2 to 7 (Oct 04), 8A (Oct 04), 9 (Oct 04), 10A (Oct 04), 11A (Nov '06), 12 to 14 (Oct 04), 15A (Dec 04), 16 (Oct 04), 17 & 18(Nov 06)

Neil McKenzie & Associates Pty Ltd Maximum Spans of Auseck Insulated Roofing – Ribbed and Corrugated Profiles Q10-271

(This certificate is valid till 31/12/2013.)

### **5. Building Certifiers Reference Number**

(for Building Certifiers use only)

### 6. Competent Persons Details

Name: James Neil McKenzie {B.E. (Civil) M.I.E.Aust}

**Registration:** N.P.E.R. 3

**Company:** Neil McKenzie & Associates Pty. Ltd.

**Contact:** Neil McKenzie

Email: mail@neilmckenzie.com.au Address: Suite 14/699A Sandgate Road

Clayfield Qld 4011

### 7. Signature of Competent Person

J.N McKenzie

for and on behalf of

Neil McKenzie & Associates Pty Ltd Civil and Structural Consulting Engineers <u>December 5, 2012</u>

Date

## Neil McKenzie & Associates Pty Ltd

Civil & Structural Consulting Engineers ABN: 46 010 816 690 Suite 14, Clayfield Courtyard 699A Sandgate Road, Clayfield Qld 4011 Phr 07 3862 1886 Fa: 07 3862 1397 Er mail@mdmckenzie.com.au

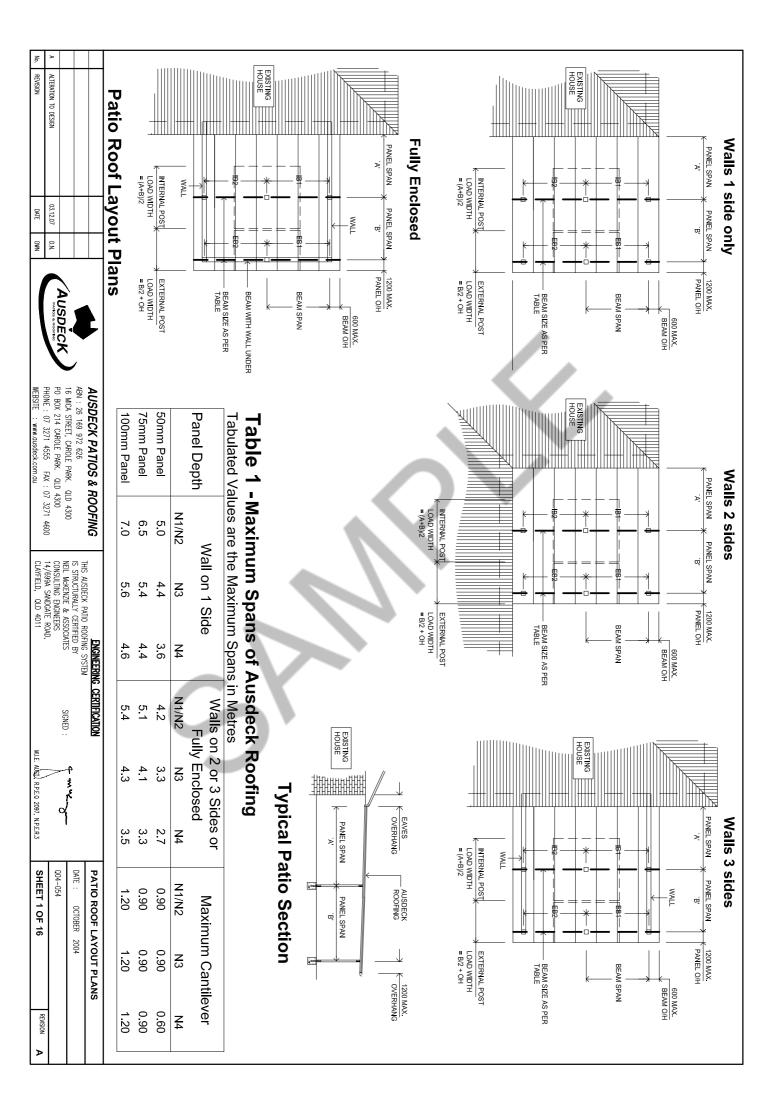
Job Reference: Q10-271

## Maximum Spans of Ausdeck Insulated Roofing - Ribbed and Corrugated Profiles.

Panel Depth	Wall on 1 Side		7	Walls o	n 2 or 3	Sides	Maxi	mum Canti	lever
(mm)	N1/N2	N3	N4	N1/N2	N3	N4	N1/N2	N3	N4
50	5.00	4.40	3.60	4.20	3.30	2.70	0.90	0.90	0.60
75	6.50	5.40	4.40	5.10	4.10	3.10	0.90	0.90	0.90
100	7.00	5.60	4.60	5.40	4.30	3.50	1.20	1.20	1.20
125	7.80	6.20	5.10	6.00	4.80	3.90	1.50	1.50	1.30
150	8.60	6.90	5.60	6.60	5.20	4.30	1.80	1.70	1.40

### Maximum Spans of Ausdeck Insulated Roofing - Ribbed and Corrugated Profiles.

Panel Depth	Single Span -	Fully Enclose	н	Maxim	um Cantil	ever
(mm)	N1/N2	N3	N4	N1/N2	N3	N4
50	4.60	3.80	3.10	0.90	0.90	0.60
75	5.90	4.70	3.90	0.90	0.90	0.90
100	6.20	4.90	4.00	1.20	1.20	1.20
125	6.90	5.50	4.50	1.50	1.50	1.30
150	7.60	6.10	5.00	1.80	1.70	1.40



# Table 2 - Beams Supporting Ausdeck Roofing, Wall on 1 Side Only

Tabulated Values are the Maximum Span in Metres

						Be	eam Loa	ıd Width	(m) = (A)	Beam Load Width (m) = (A+B)/2 OR	₹ (B/2+OH)	Ĭ)					
Beam Type				Single	Span							Continu	Continuous Span	_			
	1.5	2.1	2.7	3.3	3.9	4.5	5.1	6.0	7.0	1.5	2.1	2.7	3.3	3.9	4.5		5.1
Ausdeck																- 1	
100x65 Shure-lock	5.2	4.7	4.3	4.0	3.8	3.6	3.5	<u>ა</u> ა	3.1	5.7	5.1	4.7	4.4	4.2	4.0		ა. 8
150x65 Shure-lock	7.2	6.6	6.2	5.8	5.5	5.2	5.0	4.8	4.5	8.3	7.4	6.8	6.4	6.1	5.8		5.5
200x65 Shure-lock	8.5	7.8	7.4	7.0	6.7	6.5	6.3	6.0	5.6	9.0	9.0	8.6	8.0	7.6	7.2		6.9
00x50x2 RHS	5.0	4.4	4 1	<u>3</u> .8	3.6	3.4	ယ	3 <u>.</u> 1	2.9	5.5	4.9	4.5	4.2	4.0	3.8		3.6
100x50x2.5 RHS	5.3	4.7	4.4	4.1	3.9	3.7	3.5	<u>သ</u> သ	3.1	5.8	5.2	4.8	4.5	4.3	4.1		3.9
00x50x4 RHS	5.6	5.0	4.6	4.3	4 1	3.9	3.7	3.5	33	6.2	5.5	5.1	4.7	4.5	4.3		4.1
25x75x3 RHS	7.1	6.5	6.0	5.7	5.3	5.1	4.9	4.6	4.3	8.1	7.2	6.7	6.2	5.9	5.6	(5	4
25x75x4 RHS	7.5	6.9	6.5	6.1	5.8	5.5	5.3	5.0	4.7	8.7	7.8	7.2	6.7	6.4	6.1	(J)	œ
25x75x5 RHS	7.8	7.2	6.7	6.4	6.1	5.8	5.6	5.3	5.0	9.0	8.3	7.6	7.1	6.7	6.4	6	N
50x50x3 RHS	7.4	6.8	6.4	6.1	5.7	5.5	5.2	5.0	4.7	8.7	7.8	7.1	6.7	6.3	6.0	IJ.	5.8
50x50x4 RHS	7.9	7.2	6.8	6.5	6.2	5.9	5.6	5.4	5.1	9.0	8.4	7.7	7.2	6.8	6.5	6	6.2
50x50x5 RHS	8.2	7.5	7.1	6.7	6.5	6.2	6.0	5.7	5.4	9.0	8.9	8.2	7.6	7.2	6.9	6.6	6
200x50x4 RHS	9.0	8. 8	8.2	7.8	7.5	7.2	7.0	6.7	6.3	9.0	9.0	9.0	9.0	8.8 8	8.4	8.0	0
150 15	4.6	4.2	3.9	3.7	3.5	3.4	3 <u>.</u> 3	3 <u>.</u> 1	3.0	6.3	5.7	5.3	4.9	4.6	4.4	4.2	Ν
C150 19	5.0	4.5	4.3	4.0	3.8	3.7	3.5	3.4	3.3	6.9	6.2	5.8	5.4	5.1	4.9	4.7	7
200 15	5.6	5.1	4.8	4.5	4.3	4.2	4.0	3.8	3.6	7.7	7.0	6.5	6.0	5.7	5.4	5	5.2
200 19	6.2	5.6	5.2	5.0	4.7	4.5	4.4	4.2	4.0	8.5	7.7	7.2	6.7	6.3	6.1	را ت	œ
40x45 F7 Pine	4.0	3.6	3.3 3	3.1	2.8	2.6	2.5	2.3	2.2	s/s	s/s	3.4	3.1	2.9	2.7	2.5	Öı
70x45 F7 Pine	4.8	4.4	4.1	3.8	3.5	3.2	3.0	2.8	2.7	s/s	s/s	s/s	s/s	3.5	3.2	ω	
90x45 F7 Pine	5.2	4.8	4.5	4.2	3.9	3.6	3.4	3.1	3.0	s/s	s/s	s/s	s/s	s/s	s/s	ω	4
125x50 F14 Hwd	3.4	<u>3.1</u>	2.9	2.7	2.6	2.5	2.4	2.3	2.2	3.5	3.5	3.5	3.5	3.5	3.4	ω	3.2
150x50 F14 Hwd	4.0	3.7	3.5	<u>ა</u> ა	3.1	3.0	2.9	2.7	2.6	s/s	s/s	s/s	s/s	s/s	3.5	ω	3 <u>.</u> 5
175x50 F14 Hwd	4.6	4.3	4.0	3 8	3.6	3.5	3.4	3.2	<u>3.1</u>	s/s	s/s	s/s	s/s	s/s	s/s	s/s	s'
200x50 F14 Hwd	5.1	4.8	4.6	4.3	4.1	4.0	3 <u>.</u> 8	3.7	3.6	s/s	s/s	s/s	s/s	s/s	s/s	s/s	/s
125x75 F14 Hwd	3.8	3.4	3.2	<u>3.1</u>	2.9	2.8	2.7	2.6	2.5	s/s	3.5	3.5	3.5	3.5	3.5	ω	3.5
150x75 F14 Hwd	4.4	4.1	3.9	3.7	3.5	3.4	ა ა	3.1	3.0	s/s	s/s	s/s	s/s	s/s	s/s	s/s	S)
175x75 F14 Hwd	5.0	4.7	4.5	4.3	4.1	3.9	3.8 8	3.6	3.5	- /-		- 1-		s/s	2/2	s/s	S
000 17 144-		л S	ח	Δ α						S/S	s/s	s/s	s/s	9	0/0		1

AUSDECK PATIOS & ROOFING
ABN: 26 169 972 626
16 MICA STREET, CAROLE PARK. QLD 4300
PO BOX 214 CAROLE PARK. QLD 4300
PHONE: 07 3271 4555 FAX: 07 3271 4600 ENGINEERING CERTIFICATION

THIS AUSDECK PATIO ROOFING SYSTEM
IS STRUCTURALLY CERTIFIED BY
NEIL MCKENZIE & ASSOCIATES
CONSULTING ENGINEERS
14/699A SANDGATE ROAD,
CLAFFIELD, QLD 4011

REVISION

DATE

DWN

WEBSITE : www.ausdeck.com.au

- Mark

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DATE :	OCTOBER	2004	
Q04-054			
SHEET	SHEET 2 OF 16		REVISION

M.I.E. NUST., R.P.E.O 2097, N.P.E.R.3

**N**3

Tabulated Values are the Maximum Span in Metres

						В	Beam Load Width (m) =	Width (		(A+B)/2 OR	(B/2+OH)	Ξ				
Beam Type				Single	Span							Continuc	Continuous Span			
	1.5	2.1	2.7	<u>3.</u> 3	3.9	4.5	5.1	6.0	1.5	2.1	2.7	3. 3.	3.9	4.5	5.1	
Ausdeck																
00x65 Shure-lock	4.4	3.9	3.6	3.4	3.2	<u>3.1</u>	2.9	2.8	4.9	4.3	4.0	3.7		3.4	3.2	
150x65 Shure-lock	6.3	5.7	5.2	4.9	4.6	4.4	4.2	4.0	7.0	6.3	5.8	5.4	5.1	4.9	4.7	
200x65 Shure-lock	7.5	6.9	6.5	6.1	5.8	5.5	5.3	5.0	8.8	7.9	7.2	6.8	6.4	6.1	5.9	
00x50x2 RHS	4.2	3 <u>.</u> 8	3.5	3.2	3 1	2.9	2.8	2.6	4.6	4.1	3.8	3.6	3.4	3.2	3.1	
100x50x2.5 RHS	4.5	4.0	3.7	3.4	<u>သ</u> သ	<u>ω</u>	3.0	2.8	4.9	4.4	4.1	3. 8	3.6	3.4	ა ა	
100x50x4 RHS	4.7	4.2	3.9	3.6	3.4	<u>3</u> .3	<u>3</u>	3.0	5.2	4.6	4.3	4.0	3.8	3.6	3.5	
25x75x3 RHS	6.2	5.6	5.1	4.8	4.5	4.3	4.1	3.9	6.9	6.1	5.6	5.3	5.0	4.8	4.6	
25x75x4 RHS	6.6	6.0	5.5	5.2	4.9	4.6	4.5	4.2	7.4	6.6	6.1	5.7	5.4	5.1	4.9	
25x75x5 RHS	6.9	6.3	5.8	5.5	5.2	4.9	4.7	4.5	7.8	7.0	6.4	6.0	5.7	5.4	5.2	
50x50x3 RHS	6.6	6.0	5.5	5.1	4.8	4.6	4.4	4.2	7.3	6.6	6.0	5.6	5.3	5.1	4.9	
50x50x4 RHS	6.9	6.4	5.9	5.5	5.2	5.0	4.8	4.5	7.9	7.1	6.5	6.1	5.8	5.5	5.3	
50x50x5 RHS	7.2	6.7	6.2	5.8	5.5	5.3	5.1	4.8	8.4	7.5	6.9	6.4	6.1	5.8	5.6	
200x50x4 RHS	8.4	7.7	7.2	6.9	6.6	6.4	6.2	5.8	9.0	9.0	8.4	7.8	7.4	7.1	6.8	
150 15	4.0	3.6	3.4	3.2	3.0	2.9	2.8	2.7	5.4	4.8	4.4	4.0	3.7	3.5	3.2	
150 19	4.3	4.0	3.7	3.5	္သ	3.2	3.0	2.9	5.9	5.3	4.9	4.5	4.2	4.0	<u>3</u> .8	
C200 15	4.9	4.5	4.2	3.9	ა. 8	3.6	ა 5	သ	6.7	6.0	5 4	5.0	4.5	4.2	3.9	
200 19	5.3	4.9	4.5	4.3	4.1	4.0	<u>3.</u> 8	3.6	7.3	6.6	6.1	5.7	5.3	5.0	4.7	
40x45 F7 Pine	3.6	3.2	2.7	2.5	2.3	2.1	2.0	1.8	s/s	3.2	2.8	2.5	2.3	2.1	2.0	
170x45 F7 Pine	4.3	<u>3</u> .8	3.4	3.0	2.8	2.6	2.4	2.2	s/s	s/s	3.4	3.1	2.8	2.6	2.4	
0x45 F7 Pine	4.7	4.2	3 <u>.</u> 8	3.4	3.1	2.9	2.7	2.5	s/s	s/s	s/s	3.4	<u>3</u> .1	2.9	2.7	
25x50 F14 Hwd	3.4	<u>3.1</u>	2.9	2.7	2.6	2.5	2.4	2.3	3.5	3 <u>.</u> 5	3 <u>.</u> 5	ယ	3.0	2.8	2.6	
150x50 F14 Hwd	4.0	3.7	3.5	္သ	<u>3.1</u>	3.0	2.9	2.7	s/s	s/s	s/s	3 <u>.</u> 5	3.5	3.4	3.2	
175x50 F14 Hwd	4.6	4.3	4.0	3.8	3.6	3 <u>.</u> 5	3.4	3.2	s/s	s/s	s/s	s/s	s/s	3.5 5	3.5	
200x50 F14 Hwd	5.1	4.8	4.6	4.3	4 1	4.0	<u>3</u> .8	3.7	s/s	s/s	s/s	s/s	s/s	s/s	s/s	
125x75 F14 Hwd	3.7	3.4	3.2	<u>3</u> .1	2.9	2.8	2.7	2.6	s/s	3.5 5	3.5	3.5	3.5	3.4	3.2	
150x75 F14 Hwd	4.4	4.1	3.9	3.7	3.5	3.4	<u>3</u> 3	3.1	s/s	s/s	s/s	s/s	s/s	3.5	3.5	
175x75 F14 Hwd	5.0	4.7	4.5	4.3	4 1	3.9	3.8	3.6	s/s	s/s	s/s	s/s	s/s	s/s	s/s	
200×75 E14 Hwd	ת	J V	J.	4.8	4.6	4.5	4.3	4.2	s/s	s/s	s/s	s/s	s/s	s/s	s/s	

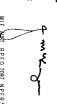
s/s - see single span as illiner is unavailable in continuous lengths greater than /iii

DATE		
DWN		
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REVISION



AUSDECK PATIOS & ROOFING
ABN: 26:169:972:626
16:MICA STREET, CAROLE PARK. QLD 4300
PO BOX 214 CAROLE PARK. QLD 4300
PHONE: 07:3271:4555 FAX: 07:3271:4680 WEBSITE : www.ausdeck.com.au



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		OCTOBER	2004
,	Q04-054		
I., R.P.E.Q 2097, N.P.E.R.3	3 OF 16	0F 16	

# Table 4 - Beams Supporting Ausdeck Roofing, Wall on 1 Side Only

**V** 

Tabulated Values are the Maximum Span in Metres

í						Be	Beam Load Width	ป Width (เ	(m) = (A+	(A+B)/2 OR	(B/2+OH	ۓ				
Beam Type				Single	Span						•	Continuous Span	us Span			
	1.5	2.1	2.7	္သ	3.9	4.5	5.1	6.0	<u>1</u> .5	2.1	2.7	ယ္သ	3.9	4.5	5.1	6.0
Ausdeck																
ure-lock	3.8	3.4	<u></u>	2.9	2.8	2.6	2.5		4.2			3.2	<u></u>	2.9	2.8	
	5.5	4.9	4.5	4.3	4.0	3.8	3.7	3 <u>.</u> 5	6.1	5.4		4.7	4.4	4.2	4.1	3.8
200x65 Shure-lock	6.8	6.2	5.7	5.3	5.0	4.8	4.5		7.6	6.8	6.3	5.9	5.6	5.1	4.5	
00x50x2 RHS	3.6	<u>ω</u> ω	3.0	2.8	2.6	2.5	2.4	2.3	4.0	3.6	ယ ယ	<u>3</u> .1	2.8	2.6	2.5	2.3
00x50x2.5 RHS	3.9	3.5	3.2	3.0	2.8	2.7	2.6	2.4	4.3	3.8	ა 5	သ	<u>3</u>	3.0	2.8	2.7
00x50x4 RHS	4.1	3.7	3.4	ω -	3.0	2.8	2.7	2.6	4.5	4.0	3.7	3.5	3. 3.	<u>3.1</u>	3.0	2.8
25x75x3 RHS	5.4	4.8	4.4	4.1	3.9	3.7	3.6	3.4	5.9	53	4.9	4.6	4.3	4.1	3.9	3.7
25x75x4 RHS	5.8	5.2	4.8	4.5	4.2	4.0	3.9	3.7	6.4	5.7	5 <u>.</u> 3	4.9	4.7	4 4	4.3	4.0
25x75x5 RHS	6.2	5.5	5.1	4.7	4.5	4.3	4.1	3.9	6.8	6.1	5.6	5.2	4.9	4.7	4.5	4.3
50x50x3 RHS	5.8	5.2	4.7	4.4	4.2	4.0	3.8	3.6	6.4	5.7	5.2	4.9	4.6	4 4	4.2	3.8
50x50x4 RHS	6.2	5.6	5.1	4.8	4.5	4.3	4.1	3.9	6 <u>.9</u>	6.1	5.6	5.3	5.0	4.8	4.6	4.3
150x50x5 RHS	6.5	5.9	5.4	5.1	4.8	4.6	4.4	4.7	7.3	6.5	6.0	5.6	5.3	5.0	4.8	4.6
200x50x4 RHS	7.5	6.9	6.5	6.2	5.8	5.6	5.3	5.1	8 <u>.</u> 8	7.9	7.3	6.8	6.4	6.1	5.9	5.5
	3.5	3.2	3.0	2.8	2.7	2.5	2.4	2.3	4.7	4.0	3.7	3.2	3.0	2.8	2.5	2.4
C150 19	3 8	3.5	3.2	<u>ω</u> 1	2.9	2.8	2.7	2.6	5.1	4.5	4.2	ა. 8	<u>3</u> 5	မ	3.0	2.8
	4.3	4.0	3.7	<u>3</u> 5	<u>ဒ</u> .	3.2	3.0	2.9	5.7	5.0	4.4	3.9	<u>3</u> 5	3.0	2.9	2.8
	4.7	4.3	4.0	3.8	3.6	3.5	္သ	3.2	6.4	5.7	5.2	4.7	4.4	4.2	3.9	3.5
40x45 F7 Pine	3.0	2.5	2.2	2.0	1.8	1.7	1.6	1 5	3.0	2.5	2.2	2.0	1.8	1.7	1.6	15
170x45 F7 Pine	3.7	<u>3</u> .1	2.7	2.4	2.2	2.1	1.9	1.8	s/s	<u>3.1</u>	2.7	2.4	2.3	2.1	1.9	1.8
90x45 F7 Pine	4.1	3.4	3.0	2.7	2.5	2.3	2.2	2.0	s/s	3 <u>.</u> 5	<u>3</u>	2.7	2.5	2.3	2.2	2.0
25x50 F14 Hwd	3.2	2.8	2.6	2.4	2.3	2.2	2.1	1.9	3.5	3 3	2.9		2.4	2.2	2.1	1.9
50x50 F14 Hwd	3.8	3.4	<u>3.</u> 1	2.9	2.8	2.6	2.5	2.3	s/s	3 <u>.</u> 5	3.5		2.9	2.7	2.6	2.3
	4.3	4.0	3.7	3.4	3.2	<u>3</u> .1	3.0	2.7	s/s	s/s	s/s		3.4	3.2	3.0	2.8
	4.8	4.4	4.2	4.0	3.7	3.5	ယ ယ	3.1	s/s	s/s	s/s		s/s	3 <u>.</u> 5	3.5	3.2
	3.7	သ	3.0	2.8	2.6	2.5	2.4	2.3	s/s	3.5	3.5		3.0	2.7	2.6	2.4
150x75 F14 Hwd	4.3	4.0	3.6	3.4	3.2	3.1	2.9	2.8	s/s	s/s	s/s	3.5	3.5	33.0	3.1	2.9
175x75 F14 Hwd	4.9	4.5	4.2	4.0	3.8	3.6	3.4	<u></u> 3	s/s	s/s	s/s		s/s	s/s	3.5	3.4
200x75 F14 Hwd	5.4	4.9	4.6	4.4	4.2	4.1	4.0	3.7	s/s	s/s	s/s		s/s	s/s	s/s	s/s

s/s - See Single Span as Timber is unavailable in continuous lengths greater than 7m

DATE DWN	REVISION		
DWN	DATE		
	DWN		



## **AUSDECK PATIOS & ROOFING**

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TABLE 4	4		
DATE :	OCTOBER	2004	
Q04-054			
SHEET	SHEET 4 OF 16		REVISION

# Table 5 - Beams Supporting Ausdeck Roofing, Walls on 2 or 3 Sides or Fully Enclosed

Tabulated Values are the Maximum Span in Metres

						Beam	Load Wi	Beam Load Width (m) =	= (A+B)/2 OR	$\overline{}$	B/2+OH)					
Beam Type				Single	Span							Continuous Span	us Span			
	1.5	2.1	2.7	သ	3.9	4.5	5.1	6.0	1.5	2.1	2.7	သ	3.9	4.5	5.1	6.0
Ausdeck																
100x65 Shure-lock	4.3	3.8	3.5	<u>ω</u> ω	ω 1	3.0	2.8	2.7	4.7	4.2			3.4	3.3	ω 1	3.0
150x65 Shure-lock	6.2	5.5	5.1	4.7	4.5	4.3	4.1	3.9	6.8	6.1	5.6	5.2	4.9	4.7	4.5	4.3
200x65 Shure-lock	7.3	6.7	6.3	5.9	5.6	5.4	5.1	4.9	8.5	7.6			6.2	5.9	5.7	5.4
100x50x2 RHS	4 1	3.6	ယ	ω <del>-</del>	3.0	2.8	2.7	2.6	4.5	4.0	3.7	3.4	ယ္	<u></u>	2.9	2.7
100x50x2 5 RHS	4.3	3.9	3.6	သ	3.2	3.0	2.9	2.7	4.8	4.3	3.9	3.7	3.5	<u>3</u>	3.2	3.0
100x50x4 RHS	4.6	4.1	3.7	3.5 5	<u>3.</u> 3	3.2	3.0	2.9	5.0	4.5	4.1	3.9	3.7	3.5	3 3	3.2
125x75x3 RHS	6.0	5.4	4.9	4.6	4.4	4.2	4.0	3 <u>8</u>	6.6	5.9	5.4	5 1	4.8	4.6	4.4	4.2
125x75x4 RHS	6.4	5.8	5.3	5.0	4.7	4.5	4.3	4.1	7.1	6.4	5.9	5.5	5.2	5.0	4.8	4.5
125x75x5 RHS	6.7	6.1	5.7	5.3	5.0	4.8	4.6	4.3	7.6	6.8	6.2	5.8	5.5	5.3	5.0	4.8
150x50x3 RHS	6.4	5.8	5.3	5.0	4.7	4.5	4.3	4.1	7.1	6.3	5 <u>.</u> 8	5.5	5.2	4.9	4.7	4.5
150x50x4 RHS	6.8	6.2	5.7	5.3	5.0	4.8	4.6	4.4	7.6	6.8	6 <u>.</u> 3	5.9	5.6	5.3	5.1	4.8
150x50x5 RHS	7.1	6.5	6.0	5.6	5.3	5.1	4.9	4.6	<u>8</u> .1	7.2	6.7	6.2	5.9	5.6	5.4	5.1
200x50x4 RHS	8.2	7.5	7.1	6.7	6.4	6.2	5.9	5.6	9.0	8.8	8.1	7.6	7.2	6.8	6.6	6.2
C150 15	3.9	3.5	3.3	3.1	3.0	2.8	2.7	2.6	5.2	4.7	4.2	3.9	3.5	<u>3</u> .3	3.0	2.8
0150 19	4.2	3.8	3.6	3.4	3.2	ა. 1	3.0	2.8	5.7	5.2	4.7	4.4	4.1	3.9	3.7	3.4
C200 15	4.7	4.3	4.0	3.8	3.6	3 <u>.</u> 5	3.4	3.2	6.5	5.7	5.2	4.7	4.2	3.9	3.7	3.2
C200 19	5.2	4.7	4.4	4.2	4.0	3 <u>.</u> 8	3.7	3 <u>.</u> 5	7.1	6.4	5.9	5.5	5.1	4.9	4.6	4.2
40x45 F7 Pine	3.5	3.0	2.6	2.4	2.2	2.0	1.9	1.7	3.5	3.0	2.6	2.4	2.2	2.0	1.9	1.7
170x45 F7 Pine	4.2	3.6	3.2	2.9	2.6	2.5	2.3	2.1	s/s	s/s	3.2	2.9	2.6	2.5	2.3	2.1
190x45 F7 Pine	4.6	4.0	3.6	3.2	3.0	2.7	2.6	2.4	s/s	s/s	s/s	3.2	3.0	2.8	2.6	2.4
25x50 F14 Hwd	3.4	<u>3.1</u>	2.8	2.6	2.5	2.4	2.3	2.2	3.5	3 <u>.</u> 5	3.4	3 <u>.</u> 1	2.8	2.6	2.5	2.3
150x50 F14 Hwd	4.0	3.7	3.4	3.2	3.0	2.9	2.8	2.6	s/s	s/s	3 <u>.</u> 5	ა. 5	3.5	3.2	3.0	2.8
75x50 F14 Hwd	4.6	4.3	4.0	3.8	3.6	3.4	<u>ဒ</u> ဒ	3.1	s/s	s/s	s/s	s/s	s/s	3.5	3.5	္သ
200x50 F14 Hwd	5.1	4.7	4.4	4.2	4.1	3.9	3.7	3.5	s/s	s/s	s/s	s/s	s/s	s/s	s/s	3.5
125x75 F14 Hwd	3.7	3.4	3.2	<u>3</u>	2.9	2.8	2.6	2.5	s/s	3 <u>.</u> 5	3.5	3.5	3.5 5	3.2	3.0	2.8
150x75 F14 Hwd	4.4	4 1	3.9	3.7	3.5	<u>3</u> .3	3.2	3.0	s/s	s/s	s/s	s/s	s/s	3.5	3.5	3.4
175x75 F14 Hwd	5.0	4.7	4.5	4.3	4.1	3.9	3.8 8	3.6	s/s	s/s	s/s	s/s	s/s	s/s	s/s	s/s
200x75 F14 Hwd	55	52	50	4.7	4.5	4.4	4.2	4.1	s/s	s/s	s/s	s/s	s/s	s/s	s/s	s/s

s/s - See Single Span as Timber is unavailable in continuous lengths greater than 7m

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## **AUSDECK PATIOS & ROOFING**

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ř Z	DATE: OCTOBER 2004	
•	Q04-054	
R.P.E.Q 2097, N.P.E.R.3	SHEET 5 OF 16	REVISION

# Table 6 - Beams Supporting Ausdeck Roofing, Walls on 2 or 3 Sides or Fully Enclosed

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Tabulated Values are the Maximum Span in Metres

1/5x/5 F14 Hwd	1 1 1 -	150x75 F14 Hwd	125x75 F14 Hwd	200x50 F14 Hwd	175x50 F14 Hwd	150x50 F14 Hwd	125x50 F14 Hwd	190x45 F7 Pine	170x45 F7 Pine	140x45 F7 Pine	C200 19	C200 15	C150 19	C150 15	200x50x4 RHS	150x50x5 RHS	150x50x4 RHS	150x50x3 RHS	125x75x5 RHS	125x75x4 RHS	125x75x3 RHS	100x50x4 RHS	100x50x2.5 RHS	100x50x2 RHS	200x65 Shure-lock	150x65 Shure-lock	Ausdeck 100x65 Shure-lock		Beam Type	
	47	4.2	3.5	4.6	4.2	3.6	3.0	3 <u>.</u> 8	3.4	2.8	4.5	4.2	3.7	3.4	7.3	6.3	5.9	5.5	5.9	5.5	5.1	3.9	3.7	3.5	6.5	5.3	3 <u>.</u> 6	1.5		
	4.3	3.8 8	3 1	4.3	<u>3</u> .8	3.2	2.7	3.2	2.9	2.3	4.1	3.8	3.3	3.1	6.7	5.6	53	4.9	5.2	4.9	4.6	<u>3</u> 5	ည	3 1	5.9	4.7	3.2	2.1		
_	4.0	3.5	2.9	4.0	<u>3</u> 5	3.0	2.5	2.8	2.5	2.0	3.9	3.5	3.1	2.9	6.3	5.1	4.9	4.5	4.8	4.5	4.2	3.2	3.0	2.8	5.4	4.3	3.0	2.7		
ر د	3.8	3.2	2.7	3.8 8	<u>ဒ</u> ဒ	2.8	2.3	2.5	2.3	1.8	3.6	3.3	2.9	2.7	5.9	4.8	4.5	4.2	4.5	4.2	3.9	3.0	2.8	2.7	5 1	4.0	2.8	3.3	Single	
41	3.6	3.1	2.5	3.5	<u>3.1</u>	2.6	2.2	2.3	2.1	1.7	3 <u>.</u> 5	3.2	2.8	2.5	5.5	4.6	4.3	4.0	4.3	4.0	3.7	2.8	2.7	2.5	4.8	<u>ဒ</u> .	2.6	3.9	e Span	
3 9	3.4	2.9	2.4	္သ	3.0	2.5	2.1	2.2	1.9	1.6	3. 3	3.0	2.7	2.4	5 <u>.</u> 3	4.3	4.1	3.8	<u>4</u> .1	3 <u>.</u> 8	3.6	2.7	2.6	2.4	4.4	3.6	2.5	4.5		Beam
ည	သ	2.8	2.3	<u>3</u>	2.8	2.4	1.9	2.0	1.8	1.5	3.2	2.9	2.5	2.3	5 1	4.2	3.9	3.7	3.9	3.7	3.4	2.6	2.5	2.3	3.8	3.5	2.4	5.1		Load W
ა ნ	<u>ა</u>	2.6	2.2	2.9	2.6	2.2	1.8	1.9	1.7	1.4	3.0	2.8	2.4	2.1	4.8	3.9	3.7	3.5	3.7	3.5	3.2	2.4	2.3	2.1	ა ა	သ	2.3	6.0		Beam Load Width (m) =
s/s	s/s	s/s	3.5	s/s	s/s	s/s	3.5	s/s	3.4	2.8	6.1	5.4	4.9	4 4	8.4	6.9	6.5	6.1	6.5	6.1	5.6	4.3	4.1	3 <u>.</u> 8	7.3	5.8	4.0	1.5		
s/s	s/s	s/s	3.5	s/s	s/s	3.5	<u>3.1</u>	3.2	2.9	2.3	5.4	4.7	4.4	3.9	7.5	6.2	5.8	5.4	5.8	5.4	5.0	ა 8	3.6	3.4	6.5	5.2	3.6	2.1		(A+B)/2 OR (B/
s/s	s/s	3. 5	<u>ω</u>	s/s	3.5	<u>ဒ</u> ဒ	2.7	2.8	2.5	2.0	4.9	4.0	3.9	3.4	6.9	5.7	5.4	5.0	5.3	5.0	4.6	3.5	<u>ဒ</u> ဒ	<u>3</u> .1	6.0		<u>သ</u> သ	2.7		2+OH)
s/s	s/s	3.5	3.0	s/s	3.5	3.0	2.4	2.5	2.3	1.9	4.5	3.5	3.6	3.1	6.5	5.3	5.0	4.7	5.0	4.7	4.3	သ	<u>3.1</u>	2.9	5.6		<u></u>	3.3	Continu	
s/s	s/s	3. 3.	2.7	3.5	3.2	2.7	2.2	2.4	2.1	1.7	4.1	3.2	3.4	2.9	6.1	5.0	4.7	4.4	4.7	4.4	4.1	<u>3</u> .1	3.0	2.6	5.0	4.2	2.9	3.9	Continuous Span	
s/s	3.5	3.1	2.6	3.4	3.0	2.5	2.1	2.2	1.9	1.6	3.9	2.9	<u>3</u>	2.7	5.8	4.8	4.5	4.1	4.5	4.2	3.9	3.0	2.8	2.4	4.4	4.0	2.8	4.5	_	
8/8	3.4	2.9	2.4	3.2	2.8	2.4	1.9	2.0	1.8	1.5	3.6	2.8	2.9	2.5	5.6	4.6	4.3	3.9	4.3	4.1	3.7	2.8	2.7	2.3	3.8	3.9	2.7	5.1		
s/s	<u>3.1</u>	2.7	2.2	3.0	2.6	2.2	1.8	1.9	1.7	1.4	3.2	2.7	2.7	2.2	5.1	4.3	4.0	3.6	4.1	3.8	3.4	2.7	2.6	2.1	3.3	3.7	2.5	6.0		

s/s - See Single Span as Timber is unavailable in continuous lengths greater than /m

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AUSDECK PATIOS & ROOFING
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	TABLE 6	:6			
•	: JAM	OCTOBER 2004	2004		
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PER3	LEEHS	SHEET 6 OF 16		REVISION	_

# Table 7 - Beams Supporting Ausdeck Roofing, Walls on 2 or 3 Sides or Fully Enclosed

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Tabulated Values are the Maximum Span in Metres

Beam Type		2	2	Single	<u>v</u>	Beam	Load W	Beam Load Width (m) =			/2+OH)		_	Continuous	Continuous Span	Continuous Span
Ausdeck	-		2.7	3.3	ن.	4.0	<u>.</u>	6.0	-		1.	2.1 2.1		2./	2.1 3.3	2.7 3.3 3.9
100x65 Shure-lock	3.2	2.8	2.6	2.4	2.3	2.2	2.1	2.0	3.5		3.1		2.9 2	2.9 2.7 2	2.9 2.7 2.5 2.	2.9 2.7 2.5 2.4 2
150x65 Shure-lock	4.6	4.1	3.8	3.5	<u>မ</u> မ	3.2	3.0	2.8	5.0		4.5	4.5 4.1		4.1 3	4.1 3.9 3	4.1 3.9 3.7 3.
200x65 Shure-lock	5.7	5.1	4.7	4. 4	ယ	2.9	2.5	2.2	ი ა		5.7	5.7 4.8	4.8	4.8 3.9	4.8 3.9 3.3 2.	4.8 3.9 3.3 2.9 2
100x50x2 RHS	3.0	2.7	2.5	2.3	2.1	2.0	1.9	1.7	33		2.9		2.6	2.6 2.3	2.6 2.3 2.1	2.6 2.3 2.1 2.0
100x50x2.5 RHS	3.2	2.9	2.6	2.5	2.3	2.2	2.1	2.0	3 <u>.</u> 5		3.2	3.2 2.9		2.9	2.9 2.7	2.9 2.7 2.6
100x50x4 RHS	3.4	3.0	2.8	2.6	2.5	2.3	2.2	2.1	3.7		ဒ္ဌ		3.1	3.1 2.9	3.1 2.9 2.7	3.1 2.9 2.7 2.6
125x75x3 RHS	4.5	4.0	3.7	3.4	3.2	ω -	3.0	2.8	4.9		4.4		4.0	4.0 3.7	4.0 3.7 3.4	4.0 3.7 3.4 3.2
125x75x4 RHS	4.8	4.3	4.0	3.7	3 <u>.</u> 5	္သ	3.2	3.0	5.3	-		4.7	47 44	47 44 41	4.7 4.4 4.1 3.9	4.7 4.4 4.1 3.9 3.6
125x75x5 RHS	5.1	4.6	4.2	3.9	3.7	3.5	3.4	3.2	5.6	0,		5.0	5.0 4.6	5.0 4.6 4.3	5.0 4.6 4.3 4.1	5.0 4.6 4.3 4.1 3.9
150x50x3 RHS	4.8	4.3	3.9	3.7	3.5	<u>ဒ.</u> ဒ	3 <u>.</u> 1	2.9	5.3	-		4.7	4.7 4.3	4.7 4.3 3.9	4.7 4.3 3.9 3.6	4.7 4.3 3.9 3.6 3.3
150x50x4 RHS	5.1	4.6	4.2	4.0	3.7	3.6	3.4	3 <u>.</u> 2	5.7			5.1	5.1 4.7	5.1 4.7 4.4	5.1 4.7 4.4 4.0	5.1 4.7 4.4 4.0 3.8
150x50x5 RHS	5.5	4.9	4.5	4.2	4.0	3.8	3.6	3.4	6.0	_		5.4	5.4 4.9	5.4 4.9 4.6	5.4 4.9 4.6 4.4	5.4 4.9 4.6 4.4 4.1
200x50x4 RHS	6.5	5.9	5.5	5.1	4.8	4.6	4.4	4.2	7.3	ω		6.5	6.5 6.0	6.5 6.0 5.6	6.5 6.0 5.6 5.2	6.5 6.0 5.6 5.2 4.8
C150 15	3.0	2.7	2.5	2.3	2.1	2.0	2.0	1.9	3.7	,		3.2	3.2 2.8	3.2 2.8 2.5	3.2 2.8 2.5 2.2	3.2 2.8 2.5 2.2 2.0
C150 19	္အ	3.0	2.8	2.6	2.4	2.3	2.2	2.0	4.2		3.7	3.7 3.2		3.2	3.2 2.9	3.2 2.9 2.7
C200 15	3.7	3.4	3.1	2.9	2.8	2.7	2.6	2.5	4.5	h-	3.5		3.1	3.1 2.8	3.1 2.8 2.7	3.1 2.8 2.7 2.6
C200 19	4.0	3.7	3.4	3.2	3.0	2.9	2.8	2.7	5.2		4 <u>.</u> 5	4.5 4.0	4.0	4.0 3.7	4.0 3.7 3.2	4.0 3.7 3.2 2.9
140x45 F7 Pine	2.3	1.9	1.7	1.6	1.4	<u>1</u> .3	1.2	1.1	2.3		1.9		1.7	1.7 1.6	1.7 1.6 1.4	1.7 1.6 1.4 1.3
170x45 F7 Pine	2.7	2.3	2.0	1.8	1.7	1.6	1.5	1.4	2.7		2.3	2.3 2.0	V	2.0	2.0 1.8	2.0 1.8 1.7
190x45 F7 Pine	3.1	2.6	2.3	2.0	1.9	<u>1</u> .8	1.7	1.6	3 <u>.</u> 1	l.	2.6	ď	2.3	2.3 2.0	2.3 2.0 1.9	2.3 2.0 1.9 1.8
125x50 F14 Hwd	2.6	2.3	2.1	2.0	1.8	1.7	1.6	1.4	3.0	1	1	2.5	2.5 2.2	2.5 2.2 2.0	2.5 2.2 2.0 1.8	2.5 2.2 2.0 1.8 1.7 1
150x50 F14 Hwd	3.2	2.8	2.6	2.4	2.2	2.0	1.9	1.8	3.5		3.0		2.7 2	2.7 2.4	2.7 2.4 2.2	2.7 2.4 2.2 2.0
175x50 F14 Hwd	3.7	3.3	3 <u>.</u> 1	2.8	2.6	2.4	2.2	2.1	s/s		3.5	3.5 3.1	3.1 2	3.1 2.8	3.1 2.8 2.6	3.1 2.8 2.6 2.4
200x50 F14 Hwd	4.2	3.8	3.5	3.2	2.9	2.7	2.6	2.4	s/s		s/s			3.5	3.5 3.2	3.5 3.2 3.0
125x75 F14 Hwd	3.0	2.7	2.5	2.3	2.2	2.0	1.9	1.8	3.5		3.1		2.7 2	2.7 2.4	2.7 2.4 2.2	2.7 2.4 2.2 2.1
150x75 F14 Hwd	3.7	3.3	3.0	2.8	2.7	2.5	2.3	2.1	s/s		3.5	3.5 3.0	3.0 2	3.0 2.9	3.0 2.9 2.7	3.0 2.9 2.7 2.5
175x75 F14 Hwd	4.2	3.9	3.6	3. 3	3 <u>.</u> 1	2.9	2.8	2.5	s/s		s/s	s/s s/s	s/s 3	s/s 3.5	s/s 3.5 3.2	s/s 3.5 3.2 3.0
200x75 F14 Hwd	4.7	4.3	4.1	3.8	3.6	3.4	3.2	2.9	s/s		s/s	s/s s/s	s/s s	s/s s/s	s/s s/s s/s	s/s s/s s/s 3.4

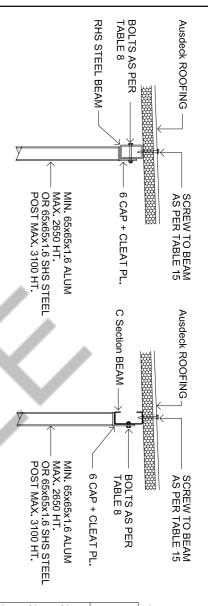
s/s - See Single Span as Timber is unavailable in continuous lengths greater than 7m



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16 MICA STREET, CAROLE PARK. QLD 4300
PO BOX 214 CAROLE PARK. QLD 4300
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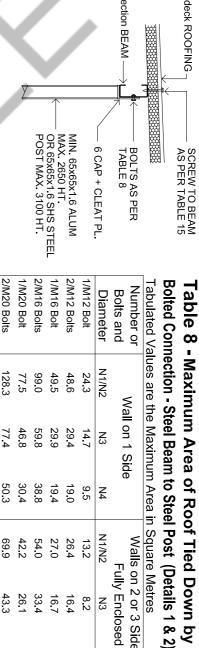


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Steel Post to Steel Beam (RHS) Detail 1

Steel Post to Steel Beam (C Section) Detail 2



Wall on 1 Side

Walls on 2 or 3 Sides or

Fully Enclosed

14.7 29.4

N3

동 4

N1/N2

 $\frac{1}{4}$ 

99.0 49.5 48.6

128.3 77.5

> 46.8 59.8 29.9

30.4 38.8 19.4 19.0

42.2 54.0

17.2 22.0

33.4 26.

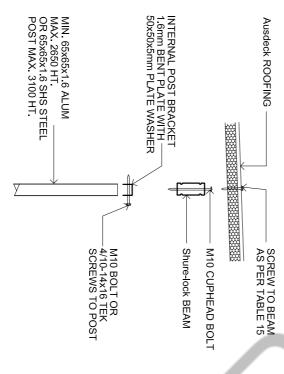
27.0

16.7 16.4 8.2

11.0

10.8

26.4 13.2



Bolted Connection - Shure-lock Beam to Alum Post (Detail 3) Table 8a - Maximum Area of Roof Tied Down by

Tabulated Values are the Maximum Area in Square Metres

7.5	N1/N2	VVQ	W)
4.5	N3	1 01	Wall on 1 Side
2.9	N4	ā	5
4.0	N1/N2	Fu	Walls o
2.5	N3	Fully Enclosed	Walls on 2 or 3 Sides or
1.6	N4	ed	ides or

## Shure-lock Beam to Alum Post Detail 3

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ALTERATION TO DRAWING	20.11.07	$\overline{}$
REVISION	DATE	



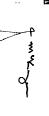
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CONSULTING ENGINEERS 14/699A SANDGATE ROAD

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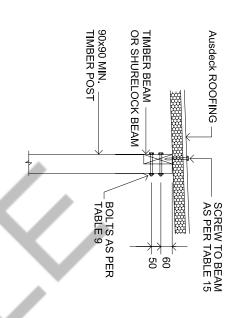
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**SHEET 8 OF 16** 

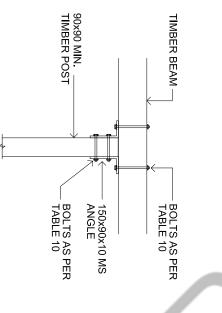
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TABLES 8 &	S 8 & 8a		
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**Timber Post to Beam** Detail 4



Timber Post to Beam Detail 5

## **Bolted Connection - Timber Beam to Post (Detail 4)** Table 9 - Maximum Area of Roof Tied Down by - SHURELOCK BEAM (Detail 4)

Tabulated Values are the Maximum Area in Square Metres

Number or Bolts and	Wa	Wall on 1 Side	de	Walls o	Walls on 2 or 3 Sides or Fully Enclosed	ides or ed
Diameter	N1/N2	N3	N4	N1/N2	N3	N4
1/M10 Bolt	7.5	4.5	2.9	4.0	2.5	1.6
2/M10 Bolts	14.6	8.8	5.7	7.9	4.9	3.2
1/M12 Bolt	8.8	5.3	3.4	4.8	3.0	2.0
2/M12 Bolts	17.2	10.4	6.7	9.4	5.8	3.8
1/M16 Bolt	12.0	7.2	4.7	6.5	4.0	2.6
2/M16 Bolts	24.0	14.4	9.4	13.0	8.0	5.2

## **Bolted Connection - Timber Beam to Post (Detail 5)** Table 10 - Maximum Area of Roof Tied Down by

Tabulated Values are the Maximum Area in Square Metres

Number or		Sp 1 0:	)	Walls o	Walls on 2 or 3 Sides or	ides or
Bolts and	AAC	wall oil i side	ď	딘	Fully Enclosed	ed
Diameter	N1/N2	N3	N4	N1/N2	N3	N4
2/M10 Bolts	40.0	24.1	15.7	21.8	13.5	8.9
2/M12 Bolts	57.3	34.6	22.5	31.2	19.3	12.7
2/M16 Bolts	99.0	59.8	38.8	54.0	33.4	22.0

 $AREA = \{(A+B)/2 \text{ OR } (B/2+OH)\} \times \{(EB+EB)/2 \text{ OR } (B+B)/2 \text{ OR } (EB/2+OH) \text{ OR } (B/2+OH)\}$ 



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DATE



## **AUSDECK PATIOS & ROOFING**

16 MICA STREET, CAROLE PARK. QLD 4300 PO BOX 214 CAROLE PARK. QLD 4300 PHONE: 07 3271 4555 FAX: 07 3271 4600 ABN : 26 169 972 626

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CONSULTING FNORMETON 14/699A SANDGATE ROAD, CLAYFIELD, QLD 4011



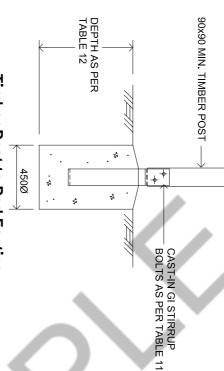
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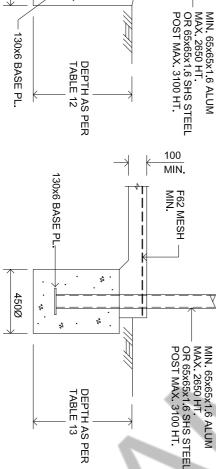
## **Bolted Connection - Timber Post to Stirrup** Table 11 - Maximum Area of Roof Tied Down by

Tabulated Values are the Maximum Area in Square Metres

22.0	33.4	54.0	38.8	59.8	99.0	2/M16 Bolts
12.7	19.3	31.2	22.5	34.6	57.3	2/M12 Bolts
N4	N3	N1/N2	Z 4	N3	N1/N2	Diameter
ed	Fully Enclosed	Fu	מ		× × 0	Bolts and
ides or	Walls on 2 or 3 Sides	Walls o	<u></u>	Wall on 1 Side	<b></b>	Number or



## Timber Post to Pad Footing



şå

## Pad Footing Without Slab Over Table 12 - Maximum Area of Roof Supported by

Tabulated Values are the Maximum Area in Square Metres

Denth of	₩ <sub>s</sub>	Wall on 1 Side	<b>D</b>	Walls or	Walls on 2 or 3 Sides or	ides or
Dad (m)	V V C		ā	Ful	Fully Enclosed	ed
1 au (111)	N1/N2	N3	Z4	N1/N2	N3	N 4
0.60	9.8	5.9	3.9	5.4	<u>ပ</u> ပ	2.2
0.75	15.1	9.1	5.9	8.2	5.1	3.4
0.90	21.8	13.2	8.6	11.9	7.4	4.9
1.05	30.3	18.3	11.9	16.5	10.2	6.7
1.20	40.7	24.6	16.0	22.2	13.7	9.1
1.35	53.2	32.1	20.9	29.0	18.0	11.8
1.50	68.0	41.0	26.7	37.0	22.9	15.1
1.65	85.3	51.4	33.4	46.5	28.8	19.0
1.80	105.3	63.5	41.3	57.4	35.5	23.4

- All Pad Footings are 450Ø
- Soil Type to be a Minimum of Nat. Medium Dense Sand or Nat. Stiff Clay
- For Footings of Greater Depth than 0.9m Reinforce with 2/N12 Bars

## **Pad Footing With Slab Over** Table 13 - Maximum Area of Roof Supported by

Tabulated Values are the Maximum Area in Square Metres

7	Donth of	<u> </u>	₹ 52.7 V	5	Walls or	Walls on 2 or 3 Sides or	des or
_		V V C	vvall oil i olde	ď	Ful	Fully Enclosed	ed
	rau (III)	N1/N2	N3	N4	N1/N2	N3	N4
円	0.60	17.3	10.4	6.8	9.4	5.8	3.8
7	0.75	23.0	13.9	9.0	12.5	7.8	5.1
	0.90	30.2	18.2	11.8	16.5	10.2	6.7
	1.05	39.1	23.6	15.3	21.3	13.2	8.7
1	1.20	49.8	30.0	19.5	27.1	16.8	11.1
	1.35	62.6	37.8	24.6	34.1	21.1	13.9
الر	1.50	77.7	46.9	30.5	42.3	26.2	17.3
	1.65	95.2	57.4	37.3	51.9	32.1	21.2
	1.80	115.4	69.6	45.2	62.9	39.0	25.7
	^	All Dod Faatings are 4500	, S				

- All Pad Footings are 4500
- Slab is to be a minimum of 20MPa, 100mm Thick with F62 Reinforcement
- Soil Type to be a Minimum of Nat. Medium Dense Sand or Nat. Stiff Clay
- For Footings of Greater Depth than 0.9m Reinforce with 2/N12 Bars

Steel Post to	
to Pad	
Footing	
With S	
lab Over	

Steel Post to Pad Footing

450Ø

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CLAYFIELD, QLD 4011	14/699A SANDGATE ROAD,	CONSULTING ENGINEERS	NEIL McKENZIE & ASSOCIATES	IS STRUCTURALLY CERTIFIED BY	THIS AUSDECK PATIO ROOFING SYSTEM	ENGINEERING CERT

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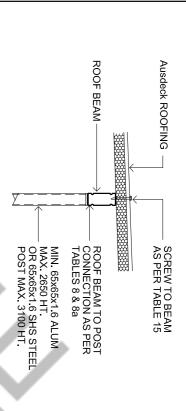
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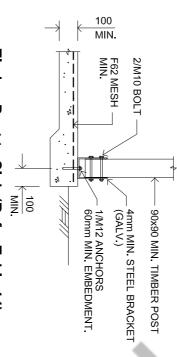
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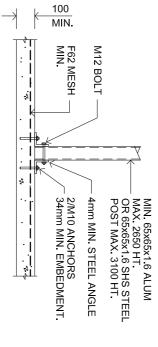
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7	DATE: OCTOBER 2004		
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## **Ausdeck Roofing to Beam**



## Timber Post to Slab (Refer Table 14)



## Steel Post to Slab (Refer Table 14)

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20.11.07 DATE

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## Table 15 - Connection of Ausdeck Roofing to Beam

Tabulated Values are the Maximum Load Width of Supported Panel in Metres

Number of Screws Required and	We	Wall on 1 Side	е́	Walls or Ful	Walls on 2 or 3 Sides or Fully Enclosed	ides or ed
Locations	N1/N2	N3	Z 4	N1/N2	N3	N4
Ribbed Panel : One Screw with Cyclone Washer per Panel Rib	7.0	5.6	4.6	5.4	4.2	2.7
Corrugated Panel : One Screw with Cyclone Washer every second Rib	7.0	5.6	4.6	5.4	4.3	3.5

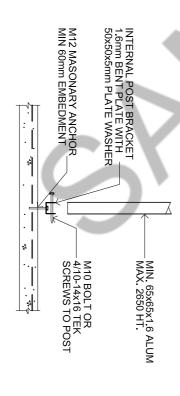
- Climaseal coated with Cyclone Washer Screws to Timber Beam are to be Type 17-14 with Minimum 65mm Penetration into Timber,
- Screws to Steel Beams are to be Tek 14, Climaseal Coated with Cyclone Washer.

## Column Bolted Directly to Slab Table 14 - Maximum Area of Roof Supported by

Tabulated Values are the Maximum Area in Square Metres

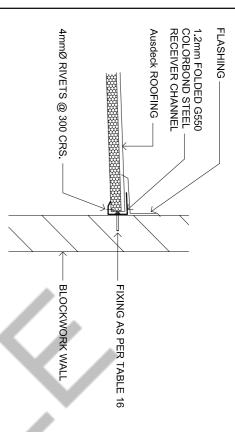
6.9	N1/N2	Wa
4.2	N3	Wall on 1 Side
2.7	Z 4	de
3.7	N1/N2	Walls o
2.3	N3	Walls on 2 or 3 Sides or Fully Enclosed
1.5	<b>4</b>	Sides or sed

Slab is to be a minimum of 20MPa, 100mm Thick with F62 Reinforcement



## Alum Post to Slab (Refer Table 14)

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CLAYFIELD, QLD 4011 M.E. MART. R.P.E.Q 2097, N.P.E.R.3	NELL MICKENZIE & ASSULATIES  CONSULTING ENGINEERS  ALAGONA CHINECULATIERS	3Y	ENGINEERING CERTIFICATION
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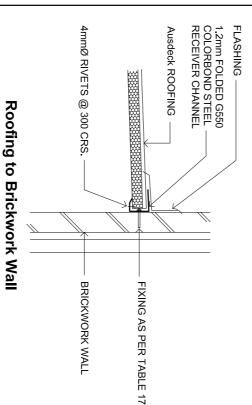
## **Roofing to Blockwork Wall**

## to Blockwork Wall Table 16 - Connection of Ausdeck Roofing Channel

Tabulated Values are the Maximum Load Width of Supported Panel in Metres

		1 1 1 1				
Connection of Boofing to Blockwork	\M\a	ll on 1 Sid	D	Walls or	Walls on 2 or 3 Sides or	ides or
Wall	<u> </u>	ANGIL OIL I SIDE	(I	Full	Fully Enclosed	pe
200	N1/N2	N3	N 4	N1/N2	N3	N <sub>4</sub>
6mm Shuredrive @ 300c/c	3.5	2.6	1.7	<u>2.</u> 3	1.4	0.9
6mm Shuredrive @ 200c/c	3 <u>.</u> 5	2.8	2.3	2.7	2.0	1.3
M8 Dynabolts @ 400 c/c	<u>3</u> .5	2.8	2.3	2.7	2.2	1.8

Blockwork is to be Fully Reinforced and Grouted else seek Engineering Advice



## to Brickwork Wall Table 17 - Connection of Ausdeck Roofing Channel

Tabulated Values are the Maximum Load Width of Supported Panel in Metres

Connection of Roofing to Blockwork	Wa	Wall on 1 Side	de	Walls or Ful	Walls on 2 or 3 Sides or Fully Enclosed	ides or ed
V S	N1/N2 N3	N3	N4	N1/N2	N3	N 4
6mm Shuredrive @ 300c/c	3.5	2.6	1.7	2.3	1.4	0.9
6mm Shuredrive @ 200c/c	3.5	2.8	2.0	2.7	1.7	1.1

- Brickwork is to have a Minimum of 1.5m Brickwork over Support, else seek Engineering Advice
- Seek Engineering Advice where situation is outside Table

DATE DWN	REVISION		
DWN	DATE		
	DWN		



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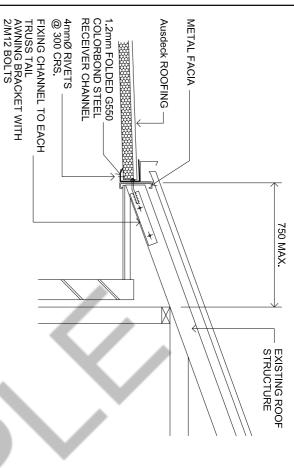
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## to Metal Facia Table 18 - Connection of Ausdeck Roofing Channel

Tabulated Values are the Maximum Load Width of Supported Panel in Metres

Rafter/Truss Spacing	Wa	Wall on 1 Side	le le	Walls or Full	Walls on 2 or 3 Sides or Fully Enclosed	ides or
	N1/N2	N3	N4	N1/N2	N3	N 4
600mm	3 <u>.</u> 5	2.7	1.7	2.4	1.5	1.0
900mm	2.3	1.8	<u>.</u>	1.6	1.0	0.7
1200mm	1.8	1.4	0.9	1.2	0.8	0.5
600mm Stiffened	3.5	2.8	2.3	2.7	2.2	1.8
900mm Stiffened	3.5	2.8	2.3	2.7	2.2	1.5
1200mm Stiffened	3.5	2.8	2.0	2.7	1.7	<u>;</u>

- Rafter/Truss Tail to Cantilever 750mm Maximum
- Rafter/Truss Tail to be Minimum 90x45 F8 Pine or 90x35 F17 Seas. Hwd
- Where Rafter Tails are to be stiffened use 90x45 F8 Pine x 1500 long Stiffener.
- 75mm No 14 Type 17 Batten Screws @ 300c/c

Roofing to Metal Facia (Refer Table 18)

- Builder to ensure adequate Tie-Down of Existing Roof Structure to Support
- Seek Engineering Advice where situation is outside Table

CUT BACK TRUSS TAIL AS SHOWN

## to Trusses where Fascia & Soffit are Removed Table 19 - Connection of Ausdeck Roofing Channel

Tabulated Values are the Maximum Load Width of Supported Panel in Metres

2/75mm No.14 TYPE 17 SCREWS

TIMBER FACIA FIX TO EACH TRUSS

Ausdeck ROOFING

7	1.7	2.7	2.0	2.8	3 <u>.</u> 5		1200mm
1.5	2.2	2.7	2.3	2.8	3.5		900mm
1.8	2.2	2.7	2.3	2.8	3.5	1	600mm
N4	N3	N1/N2	N4	N3	N1/N2		
ed	Fully Enclosed	Ful	ā	vvali oli i olde	× 0	acing	Rafter/Truss Spacing
ides or	Walls on 2 or 3 Sides or	Walls or	5	= 05 4 05			

- Rafter/Truss Tail to be Minimum 90x45 F8 Pine or 90x35 F17 Seas. Hwd

4mmØ RIVETS @ 300 CRS.

300 CRS

STEEL RECEIVER CHANNEL FIX TO

EXISTING ROOF STRUCTURE

FACIA WITH BATTEN SCREWS @ 1.2mm FOLDED G550 COLORBOND

- New Fascia to be fixed to each Rafter Tail with 2/75mm No 14 Type 17 Batten Screws
- Fix Reciever Channel to new Fascia with No. 14 Type 17 Batten Screws @ 300c/c
- Builder to ensure adequate Tie-Down of Existing Roof Structure to Support
- Seek Engineering Advice where situation is outside Table

## **NUSDECK PATIOS & ROOFING** ENGINEERING CERTIFICATION THIS AUSDECK PATIO ROOFING SYSTEM IS STRUCTURALLY CERTIFED BY NEL MACKENZIE & ASSOCIATES CONSTILLTING EXPONENTS CONSTILLTING EXPONENTS



	TABLES 18 & 19	
3 F	DATE : OCTOBER 2004	
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., R.P.E.Q 2097, N.P.E.R.3	SHEET 13 OF 16	REVISION

DATE				
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	PATIOS & ROOFING	AUSDECK )	1	
WEBSITE	PHONE BO	16 MIC	ABN :	AUS

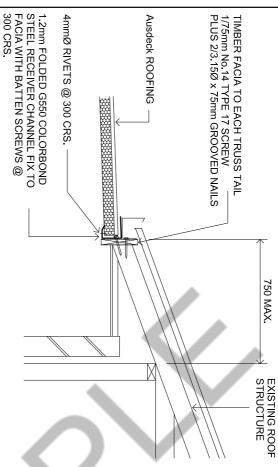
are Removed (Refer Table 19)

Roofing to Trusses where Facia & Soffit

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CA STREET, CAROLE PARK. QLD 4300 X 214 CAROLE PARK. QLD 4300 :: 07 3271 4555 FAX: 07 3271 4600 26 169 972 626

: www.ausaeck.com.au CONSULTING ENGINEERS 14/699A SANDGATE ROAD



## Tabulated Values are the Maximum Load Width of Supported Panel in Metres to Timber Fascia

Table 20 - Connection of Ausdeck Roofing Channel

900mm 900mm Stiffened 600mm 600mm Stiffened Rafter/Truss Spacing 1200mm Stiffened 1200mm N1/N2 3.5 2.2 3.5 3.5 5 3.5 2.9 Wall on 1 Side 2.8 2.8 2.7 N3 1.3 1.7 2.0 2.3 2.3 0.8 7 1.7 N1/N2 Walls on 2 or 3 Sides or 1.2 1.6 2.7 2.7 2.7 2.4 Fully Enclosed Z 2.2 1.0 1.5 0.6 <u>-</u> 1.7 <u>~</u> 0.5 Z 4 1.0

- Rafter/Truss Tail to Cantilever 750mm Maximum
- Rafter/Truss Tail to be Minimum 90x35 F8 Pine or 90x35 F17 Seas. Hwd
- Where Rafter Tails are to be stiffened use 90x45 F8 Pine x 1500 long Stiffener
- 75mm No 14 Type 17 Batten Screws @ 300c/c
- Fix Reciever Channel to Fascia with No. 14 Type 17 Batten Screws @ 300c/c
- Timber Fascia to be fixed to each Rafter Tail 1/75mm No 14 Type 17 Batten Screws and 2/75 x 3.15dia Grooved Nail
- Timber Fascia to be 190x25 min
- Builder to ensure adequate Tie-Down of Existing Roof Structure to Support
- Seek Engineering Advice where situation is outside Table

## Roofing to Timber Facia (Refer Table 20)

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**AUSDECK PATIOS & ROOFING** 

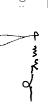
ABN : 26 169 972 626 16 MICA STREET, CAROLE PARK. QLD 4300 PO BOX 214 CAROLE PARK. QLD 4300 PHONE: 07 3271 4555 FAX: 07 3271 4600

: www.ausaeck.com.au

INCINEERING CERTIFICATION

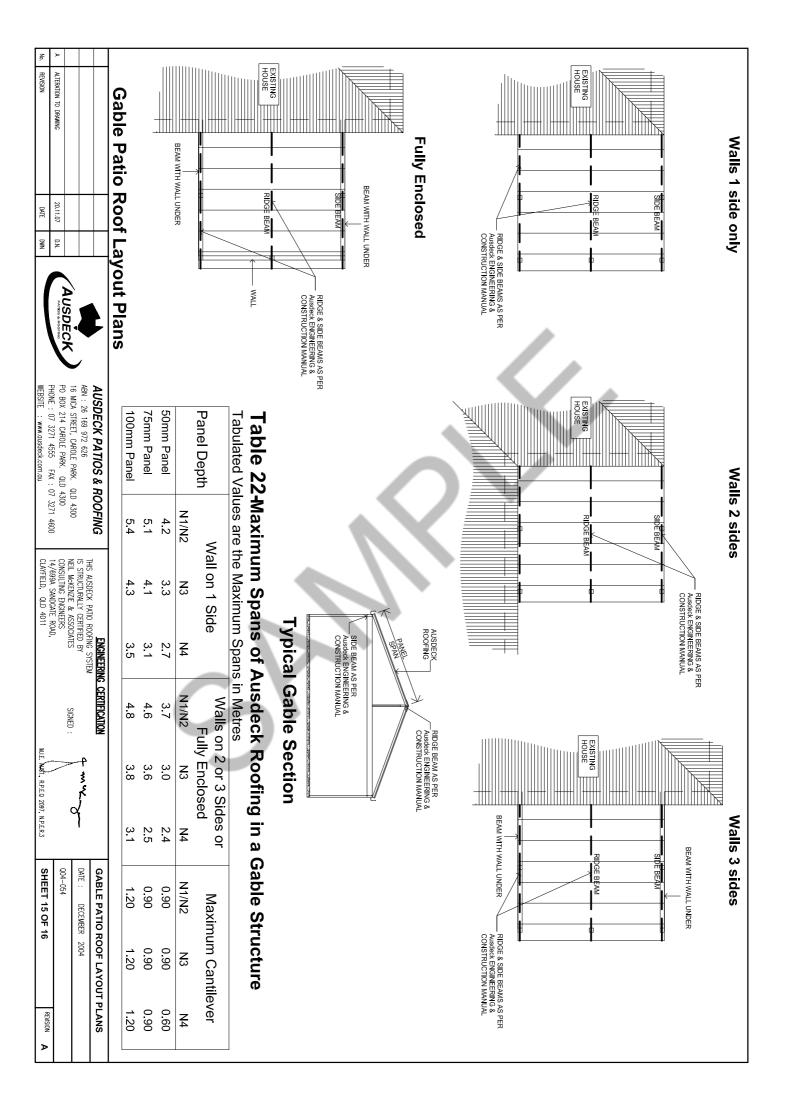
THIS AUSDECK PATIO ROOFING SYSTEM
IS STRUCTURALLY CERTIFIED BY

NEIL MCKENZIE & ASSOCIATES
CONSULTING ENGNEERS
CONSULTING ENGNEERS
14/6994 SANDGATE ROAD,
CLAFFEI OF ASSOCIATES



. NUST., R.P.E.Q 2097, N.P.E.R.3

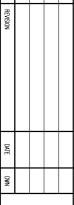
	TABLE 20	20		
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## Table 21 - Design Calculation Sheet for Ausdeck Panel Roofing

ENGINEERING CERTIFICATION	AUSDECK PATIOS & ROOFING ABN: 26 169 972 626 16 MICA STREET, CAROLE PARK. QLD 4300 PO BOX 214 CAROLE PARK. QLD 4300	AUSDECK AUSDECK
(Tables 16 to 20)	(m²)	(equals (A+B)/2 x (EB1+EB2)/2)
(equals A/2)  22. Tie-Down to Existing Structure Selec		(Tables 8 to 11)  11. Area of Roof Load on Internal Column
21. Load Width of Panel Supported by E		10. Tie-Down of Beam to External Column Selected
20. Tie-Down Selected Roof Panel to Int	(m <sup>2</sup> )	9. Area of Roof Load on External Column
		(Tables 2 to 7)
(Table 15)  19. Load Width of Panel on Internal Bea	(m)	(Maximum of IB <sub>1</sub> or IB <sub>2</sub> )  8. Internal Beam Size & Type Selected
18. Tie-Down Selected Roof Panel to E		7. Internal Beam Span Required
(equals B/2 + OH)		(Tables 2 to 7)
	(m)	(Maximum of EB <sub>1</sub> or EB <sub>2</sub> )  6. External Beam Size & Tyne Selected
(equals (A+B)/2 x (EB1+EB2)/2)  16. Footing Size and Type Selected for	(mm)	(lable 1) 5. External Beam Span Required
15. Area of Roof Load on Internal Colum		4. Panel Thickness Selected
14. Footing Size and Type Selected for	(m)	Maximum Required Span of Panel     (Maximum of A or B)
(equals (B/2+OH) x (EB1+EB2)/2)		(e.g. Wall 1 Side)
(Tables 8 to 11)  13. Area of Roof Load on External Colur		(e.g. Nz)  2. Patio Roof Enclosure Type
12. Tie-Down of Beam to Internal Colum	•	

12. Tie-Down of Beam to Internal Column Selected  (Tables 8 to 11)  13. Area of Roof Load on External Column (equals (B/2+OH) x (EB1+EB2)/2)  14. Footing Size and Type Selected for External Column (Tables 12 to 14)  15. Area of Roof Load on Internal Column (equals (A+B)/2 x (EB1+EB2)/2)  16. Footing Size and Type Selected for Internal Column (Tables 12 to 14)  17. Load Width of Panel on External Beam (equals B/2 + OH)  18. Tie-Down Selected Roof Panel to External Beam (rable 15)  19. Load Width of Panel on Internal Beam (rable 15)  20. Tie-Down Selected Roof Panel to Internal Beam (rable 3 / 2)  21. Load Width of Panel Supported by Existing Structure (equals A/2)  22. Tie-Down to Existing Structure Selected (Tables 16 to 20)						_1				_														
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## Ausdeck Insulated Panel Ribbed

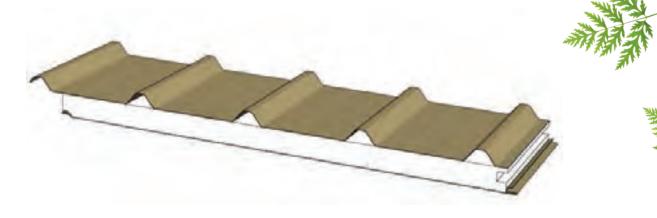
### **Description**

An insulated roofing system providing a pre-painted steel underside complete with tongue and groove roll formed edge, bonded to an insulating polystyrene core and a profiled roofing sheet on the top side.

### **Recommended Uses**

Patios, Pergolas, Carports, Eco-Housing, Commercial roofing applications, transportable buildings, cold storage facilities, wineries and most insulated roofing applications.

For further information please consult Ausdeck Engineering Details.



ROOF PANEL S	PECIFICATIONS					
WIDTH	CORE AS 1366, PART 3 1992	LENGTH	"K" VALUE CORE	MAX SKIN TEMP	ADHESIVE	FINISH
1000 mm cover	SL Grade Polystyrene 13.5 Kg/m²	Cut to order Min. 2000 mm	0.037	78°C Dry Heat Sustained	Thermosetting two part Polyurethane CFC Free	Plain face

ROOF PANEL SKIN DETAIL	_S			
FINISH	THICKNESS	SUBSTRATE	GLOSS LEVEL	COLOUR
Upper Skin	0.42 mm (BMT)	AZ150 G550	25%	Off White, Smooth Cream, Merino, Pale Eucalypt, Gull Grey, Birch, Iron Grey, Jasmin Brown, Tuscan Red, Slate Grey, Mountain Blue*, Ebony*
Lower Skin	0.60 mm (BMT)	AZ150 G300	25%	Off White

EARLY FIRE HAZARD AS 1530.3			
INDEX	Test Range	External Top Skin	Exposed Core
IGNITABILITY	0 - 20	0	12
SPREAD OF FLAME	0 - 10	0	9
HEAT EVOLVED	0 - 10	0	7
SMOKE DEVELOPED	0 - 10	1	7

TECHNICAL DATA					
Thickness (mm)	50	75	100	125**	150**
Weight (kg/m²)	10.58	10.94	11.37	11.80	12.23
R Value 8°C m²K/W	1.61	2.26	2.66	3.25	3.94
R Value 20°C m²K/W	1.59	2.22	2.59	3.17	3.75
Minimum Pitch: 2°			•		

<sup>\*</sup> Please consult Ausdeck Insulated Panel Warranty.

<sup>\*\*</sup>Thicknesses available subject to quantity considerations.



## Ausdeck Insulated Panel Corrugated

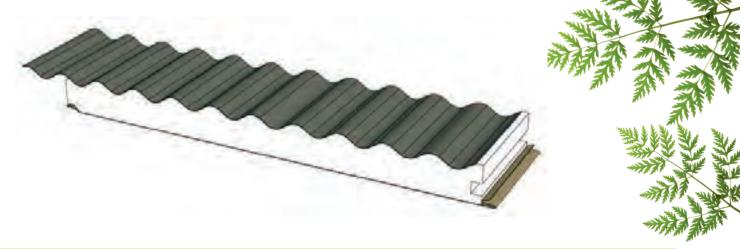
### **Description**

An insulated roofing system providing a pre-painted steel underside complete with tongue and groove roll formed edge, bonded to an insulating polystyrene core and a profiled roofing sheet on the top side.

### **Recommended Uses**

Patios, Pergolas, Carports, Eco-Housing, Commercial roofing applications, transportable buildings, cold storage facilities, wineries and most insulated roofing applications.

For further information please consult Ausdeck Engineering Details.



ROOF PANEL S	PECIFICATIONS					
WIDTH	CORE AS 1366, PART 3 1992	LENGTH	"K" VALUE CORE	MAX SKIN TEMP	ADHESIVE	FINISH
1000 mm cover	SL Grade Polystyrene 13.5 Kg/m²	Cut to order Min. 2000 mm	0.037	78°C Dry Heat	Thermosetting two part Polyurethane CFC Free	Plain face

ROOF PANEL SKIN DETAIL	S			
FINISH	THICKNESS	SUBSTRATE	GLOSS LEVEL	COLOUR
Upper Skin	0.42 mm (BMT)	AZ150 G550	25%	Off White, Smooth Cream, Merino, Pale Eucalypt, Gull Grey, Birch, Iron Grey, Jasmin Brown, Tuscan Red, Slate Grey, Mountain Blue*, Ebony*
Lower Skin	0.60 mm (BMT)	AZ150 G300	25%	Off White

EARLY FIRE HAZARD AS 1530.3			
INDEX	Test Range	External Top Skin	Exposed Core
IGNITABILITY	0 - 20	0	12
SPREAD OF FLAME	0 - 10	0	9
HEAT EVOLVED	0 - 10	0	7
SMOKE DEVELOPED	0 - 10	1	7

TECHNICAL DATA					
Thickness (mm)	50	75	100	125**	150**
Weight (kg/m²)	10.85	11.21	11.65	12.08	12.51
R Value 8°C m²K/W	1.61	2.26	2.66	3.25	3.94
R Value 20°C m²K/W	1.59	2.22	2.59	3.17	3.75
Minimum Pitch: 5°					

<sup>\*</sup> Please consult Ausdeck Insulated Panel Warranty.

<sup>\*\*</sup>Thicknesses available subject to quantity considerations.