# 









Building Code Clause(s) ..... B1......

# PRODUCER STATEMENT - PS1 - DESIGN

(Guidance notes on the use of this form are printed on the reverse side\*)

ISSUED BY:	N S CHANDLER	
то:	(Design Firm) Skyline Buildings Ltd on behalf of Marg and Waddy Wadsworth	
TO BE SUPPLIED TO	-	
IN RESPECT OF:	(Building Consent Authority)  6 x 3 Workshop  Stud Height 2.4 SG10 Pitch 15  (Description of Building Work)	
AT: 5 Waianga Pla	lace (Address)	
Omepere	LOT 11 DP 120046 SO	
We have been engaged	by the owner/developer referred to above to provide	
Struc	ctural Engineering services in respect of the requirements of	
Flause(s)	Extent of Engagement) B1-Structure the Building Code for	
Part o Exclud The design carried out by	only (as specified in the attachment to this statement), of the proposed building work. only includes timber structure, roof and wall bracing system udes truss design which is covered by Pryda PS1 by us has been prepared in accordance with: nents issued by Department of Building & Housing  Verification Method	
	(verification method / acceptable solution)  OF	
Alternative solution	on as per the attached schedule	
The proposed building we	work covered by this producer statement is described on the drawings titled	
6 x 3 Workshop for Ma	arg and Waddy Wadsworth and numbered 2 - 5	
together with the speci	cification, and other documents set out in the schedule attached to this statement.	
	sign Firm, and subject to: If the following design assumptions  Assumes site conditions comply with CL3 Site Requirements  NZS 3604:2011 'Good Ground'	
(ii) All proprietary pro	oducts meeting their performance specification requirements;	
	e grounds the building, if constructed in accordance with the drawings, specifications, and other listed in the attached schedule, will comply with the relevant provisions of the Building Code.	
, West 1 Monte Challest disconnection and the state of th	N.S CHANDLER am: CPEng 51037 #	
(Name o	of Design Professional)  Reg Arch #	
I am a Member of :	IPENZ NZIA and hold the following qualifications  BE Ceng MICE CPEng FIPENZ	
The Design Firm issuing The Design Firm is a me	g this statement holds a current policy of Professional Indemnity Insurance no less than \$500,000*.	COUN
SIGNED BY	N.S Chandler ON BEHALF OF N. S Chandler	te
Date 18.08.20	old (signature)	-0
Note: This statement shall of	only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to	

the Design Firm only. The total maximum amount of damages payable arising from this statement and all other statements provided to the Building Consent Authority in relation to this building work, whether in contract, tort or otherwise (including negligence), is limited to the sum of \$500,000\*.

This form is to accompany Form 2 of the Building (Forms ) Regulations 2004 for the application of a Building Consent.

# N.S. Chandler Ltd

Consulting Civil and Structural Engineer

Principal

Noel S Chandler BE C Eng MICE CP Eng FIPENZ

P O Box 2 Waipu 0545 Phone 09 432 0826 Mobile 0274 927 828 email nsc@clear.net.nz

<b>Building Design Parameter</b>	s and Loads	Summary to	support PS1	Producer	Statement
----------------------------------	-------------	------------	-------------	----------	-----------

Client Marg and Waddy Wadsworth

Site Address 5 Waianga Place

Omepere

Site Legal Description Lot 11 DP 120046

Building Description 6 x 3 Workshop

# Roof

Dead Load

Lightweight roof = 0.25 kPa Ceiling = N/A kPa

Live Load

Uniform Load = 0.25 kPa Point Load = 1.30 kN

Snow Load - NZS 3604 Fig 15.1

Zone = 0 Altitude up to = 0 .'. Sg = 0

Wind Load - as per NZS 3604 Wind Zones

NZS 3604 Wind Zone = V High

Vz = 50 m/sec '. q = 1.50 kPa

### Declaration

I, N.S.Chandler	am:			CPEng	51037	#
(name of Design Professional)				Reg Arch		#
I am a Member of: IPENZ		NZIA		1	NORTH DIE	
and hold the following qualifications			BE Ceng MIC	E CPEng FIP	BNZ 7	TRICT COUNCI
The Design Firm is a member of ACE	NZ O	YES	Q	NO	Doc	uments
SIGNED BY N.S. Chandler	1 Mile 100 And 600 AND AND 100 Mile 100 AND 600 AND 600 AND 600 AND 600 AND	ON	BEHALF OF		.Chandler ign Firm)	
Date: 18.08.2014		(signature)	hee	De		

kPa



Skyline Buildings Ltd
Cnr Rymer Place & Mahunga Drive
Mangere Bridge
PO Box 12261, Penrose
Auckland, New Zealand
Telephone (09) 636 0200

(09) 636 0201

# Producer Statement – Manufacturing NZBC Durability B2

Issued by:

Skyline Buildings Ltd

Date:

27-Jun-2014

Project:

6 x 3 Garage

Workshop with No Garage Doors

To:

Bryan and Margaret Wadsworth

Site address:

5 Waianga Place

Omapere

To be supplied to:

Far North District Council

In respect of:

NZBC Durability Requirement B2/AS1

Skyline Buildings Ltd confirms that this building and its components will satisfy the B2 durability requirements of the New Zealand Building Code provided;

- The building is constructed as per the Skyline details and specifications for that building.
- 2) The building is maintained in accordance with the "Maintenance Instructions" as outlined on page 5 in the "Skyline Kitset Instructions" updated February 2008. A copy of this document is available on request

David Dixon Design Services Skyline Buildings Ltd Approved Documents

# N S CHANDLER LTD

Consulting Civil and Structural Engineer

Principal
Noel S Chandler BE CEng MICE CPEng FIPENZ

P.O Box 2 Waipu 0545 New Zealand Phone 0-9-432 0826 Mobile 0274-927828 E mail nsc@clear.net.nz

24th July 2013

Skyline buildings Ltd Box 12 261 Penrose AUCKLAND

Attention David Dixon By email

Dear David,

Re Skyline Garages - B2 Durability

As explained, the NZS material codes, for example

NZS 3101:2006 - Concrete Structures Standard Section 3

NZS 3404:1997 - Steel Structures Standard cl 1.1.5.1

NZS 3604:2011 - Timber Framed Buildings Section 4

state that these Standards can be used as a means of compliance with the New Zealand Building Code and specifically include B2 Durability. B2 does not need to be specifically detailed in the PS1 certificate.

Yours sincerely,

heen le

N S Chandler

Chartered Professional Engineer

Approved Documents

# APPENDIX A

# 6.0 x 3.0 Workshop



WALL BRACING SYSTEM

FAR NORTH DISTRICT COUNC.

Approved Documents

# APPENDIX A.

# **Maintenance Instructions**

**Tilt Door Maintenance -** Oil all pivot points, arms & wheels, and lightly oil the tracks every 6 months. Lubricate key holes annually.

**Gutter Maintenance -** These should be cleaned at least once a year and on a more regular basis where there are trees in close proximity to remove leaves and dirt that can cause corrosion.

Access Door Maintenance - Oil hinges and key holes annually.

# **Exterior Maintenance**

Clearcote Cedar - Clearcote Cedar is a 100% acrylic clear coating with a cedar tint on specially prepared zinc aluminium alloy coated steel. This product can be overpainted with 100% acrylic finish coats suitable for roofing applications. If Clearcote is not overpainted its appearance is likely to change due to weathering over a period of years.

# As a guide;

- Inland areas wash every 6 months.
- Coastal & Industrial areas wash every 3 months.
- Aggressive coastal areas wash every 2 months.

**N.B Aggressive Environments -** Skyline Buildings Ltd and its Distributors shall not be liable for the performance of the Aluminium-Zinc Alloy Coating or pre-painting treatment of the sheet metal used in the construction of buildings built in close proximity of aggressive environments. This includes and building within 1500 metres of the coastline. In these areas all pre-painted and Aluminium-Zinc Coated steel wall cladding must be repainted every 5 years.

Copyright: Skyline Buildings Ltd P.O.Box 12-261, Penfosoorth District Councillation of the Council Cou



Single Story **Bracing Requirements** Job Details Name Marg and Waddy Wadsworth Street and Number 5 Waianga Place ULETICH City/Town/District Omepere 14 Normanby Street, PO Box 328 Dargaville, 0340 Designer and date Company Name Skyline Buildings Ltd Phone: 09 439 4700 Fax: 09 439 4900 No supplimentary roof bracing needed in this building Mobile: John 0274 972 116 Email: vconstruct@xtra.co.nz **Building Specification** Location of Storey 1 Single Floor Loading 1 2kpa Foundation Type 2 Sub Floor Building Height to Apex (m) 4 3.01 Roof Height above Eaves (m) 0.56 Stud Height (m) 2.4 Cladding Weight (top or single) Light Cladding Weight (lower) Light not applicable (single storey building) Cladding Weight (subfloor) Light Roof Weight Light Roof Pitch (degrees) 15 Room in Roof Space 0 Building Length (m) 6 6 Building Width (m) 3 3 Gross Building Plan Area (m2) 18 18 Determination of Wind Zone As per NZS3604 Determination of topographic class Wind Region N/A (Refer table 5.4 NZS3604) Lee Zone Formation and Hill Height N/A N/A Topographic Zone Ground Roughness N/A N/A Site Exposure N/A Smooth Gradient Value N/A Topographic Class N/A Smooth Gradient Class N/A As per Council Site Exposure N/A Topographic Class

Earthquake Zone Earthquake Zone

Bracing Units required for Earthquake Zone

ar m2 subfloor walls

9.4 Appr6.7 BUs/m2

9.4 Documents Wind Zone V High Bracing Units required for Wind per m subfloor walls W along 111 58 BUs/m I Class A + B per m2 W across 93 50 BUs/m 0.29 Snow Zone NO No Limit #REF!

169

E across

121 BUs

Totals

W along

W across

subfloor

333

558

walls

174 BUs

300 BUs





Marg & Waddy Wadsworth

Skyline Buildings Ltd

# GIB EzyBrace® 2011 Software

Along	Internal territories		tion Shee	T	Subfloor A		V06/1
Bracing Lii	ne	Bracing E	lements pro	vided		Wind	Earthq.
1	2	3	4	5	6	8W	9EQ
Line Label	Minimum BUs Req/Ach	Bracing Element No.	Supplier	Bracing Type	Number or Length L (m)	BUs Achieved	BUs Achieved
a	line totals	1	NZS3604	braced piles	2	320	240
W	320	2					
EQ	240						
b	line totals	1	NZS3604	braced piles	1	160	120
W	160	2					
EQ	120	3				2 24	
С	line totals	1	NZS3604	braced piles	2	320	240
W	320	2	1				
EQ	240	3					
d	line totals	1					
W	7	2					
EQ		3					
е	line totals	1					
W		2					
EQ		3	A CHILD IN THE				
f	line totals	1	2 0 4 3 7	-			1/3
W		2					
EQ		3					
g	line totals	1					
W		2					
EQ		3					
h	line totals	1					
W		2					
EQ		3					
	line totals	1				FAR	110
W		2					WATH
EQ		3				Appr	
	line totals	1				1	VORTH  Ved D  Earthq.
W		2					0
EQ		3					
	7					Wind	Earthq.
Totals Ach	ieved					800	600
		*******	_			OK	OK
Totals Req	uired (from	Sheet A)				528	122



Mobile: John 0274 972 116 Email: vconstruct@xtra.co.nz



Marg & Waddy Wadsworth

Skyline Buildings Ltd

# GIB EzyBrace® 2011 Software

OOITQUE	r Bracing	Carculat	tion Sheet		Subfloor A	Across	V06/1
Along		5 . 5	,	1			
Bracing Li		-	lements pro			Wind	Earthq.
1	2 Minimum	3 Bracing	4	5	6 Number or	8W	9EQ
	BUs	Element			Length	BUs	BUs
Line Label		No.	Supplier	Bracing Type	L (m)	Achieved	Achieved
m	line totals	1	NZS3604	braced piles	2	320	240
W	320	2					
EQ	240	3					
n	line totals	1	NZS3604	braced piles	1	160	120
W	160	2					
EQ	120	3					
0	line totals	1	NZS3604	braced piles	2	320	240
W	320	2					
EQ	240	3					
p	line totals	1		1			
W		2					
EQ		3					
q	line totals	1					1.17, 3.4
W		2					
EQ		3					
r	line totals	1					
W		2					
EQ		3					
S	line totals	1					
W	100000	2					Language September
EQ		3					
t	line totals	1					
W		2		u. i. i. n			
EQ		3					
u	line totals	1					
W		2					
EQ	100	3					
V	line totals	1	1000			FA	b.
W		2					" NORT
EQ		3				Ann	RNORT
			1,421.00			Wind	Earthq.

PORTH DISTRICT COUNCIL Totals Achieved Totals Required (from Sheet A) 489





,	ong	A	cross	GIB®
Wind	Earthquake	Wind	Earthquake	
OK	OK	ОК	OK	
			[normates]	per metre
0	0 1	Minimum	per metre	
	System	Length (m)	BUs W/m	BUs EQ/m
	none	A /	GIB EzyBi	race® 2011
GIB	GS1-N	0.4		11
GIB	GS2-N	0.4		
	00211	0.1	G	B.
GIB	GSP-H	0.4		
			1	
	BL1-H	0.4	The same	
GIB	BLP-H	0.4	DD	
GIB	BLG-H	0.4		Appraised 0.294 [2011]
OID I	DLG-11	0.4		
	ors - A limit of 120BU/m f			
engineering ensu- resisted by floor fi	es that uplift forces generations.	ated by elements r	ated higher than 120E	BU/m can be
engineering ensuresisted by floor fi	es that uplift forces generations.	ated by elements ra	ated higher than 120E	BU/m can be
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engineering ensuresisted by floor five resisted by floor five Ply Brace Ply Brace Skybrace Skybrace	es that uplift forces gener raming.  EP1  EP2  Sky400	0.6 0.6 0.6	125 140 103	130 150
engineering ensuresisted by floor from the properties of the prope	es that uplift forces generating.  EP1  EP2  Sky400  Sky600	0.6 0.6 0.6 0.4 0.6	125 140 103 103	130 150 93 93
engineering ensuresisted by floor from the property of the process	es that uplift forces generating.  EP1 EP2  Sky400 Sky600 Sky1200 60mm	0.6 0.6 0.4 0.6 1.2	125 140 103 103 79.2	130 150 93 93 79.2
engineering ensuresisted by floor five resisted by floor	es that uplift forces gener raming.  EP1  EP2  Sky400  Sky600  Sky1200 60mm  Sky1800	0.6 0.6 0.4 0.6 1.2	125 140 103 103 79.2 72.2	93 93 93 79.2 70 58.8 70
engineering ensuresisted by floor five resisted by floor five resist	es that uplift forces generating.  EP1 EP2  Sky400 Sky600 Sky1200 60mm Sky1800 Sky2400	0.6 0.6 0.4 0.6 1.2 1.8 2.4	125 140 103 103 79.2 72.2 63.8	93 93 93 79.2 70 58.8 70
engineering ensuresisted by floor from the property of the process	es that uplift forces generaming.  EP1 EP2  Sky400 Sky600 Sky1200 60mm Sky1800 Sky2400 Sky3000	0.6 0.6 0.4 0.6 1.2 1.8 2.4 3.0	125 140 103 103 79.2 72.2 63.8 79.2	93 93 93 79.2 70 58.8 70
engineering ensuresisted by floor from the service of the service	es that uplift forces generating.  EP1 EP2  Sky400 Sky600 Sky1200 60mm Sky1800 Sky1800 Sky3000 Sky3000 Sky3000 Sky1200 30mm	0.6 0.6 0.6 0.4 0.6 1.2 1.8 2.4 3.0 1.2	125 140 103 103 79.2 72.2 63.8 79.2 72	93 93 93 79.2 70 58.8 70
engineering ensuresisted by floor from the service of the service	es that uplift forces generating.  EP1 EP2  Sky400 Sky600 Sky1200 60mm Sky1800 Sky2400 Sky3000 Sky3000 Sky1200 30mm Sky1200 30mm SkyPanel 2400	0.6 0.6 0.6 0.6 1.2 1.8 2.4 3.0 1.2 2.4	125 140 103 103 79.2 72.2 63.8 79.2 72 50.6	93 93 93 79.2 70 58.8 70
engineering ensuresisted by floor from the service of the service	es that uplift forces generaming.  EP1 EP2  Sky400 Sky400 Sky1200 60mm Sky1200 60mm Sky1200 30mm Sky3000 Sky1200 30mm SkyPanel 2400 ChampBrace 2400	0.6 0.6 0.6 0.4 0.6 1.2 1.8 2.4 3.0 1.2 2.4 2.4	125 140 103 103 79.2 72.2 63.8 79.2 72 50.6 58.7	93 93 93 79.2 70 58.8 70

Single S	Story Site 5 Walanga Place Snow Zone			Earthquake	Zone 1				
Bracing Ele	ment Schedule		Omepere		Wind Zone	V High		Soil Class A	
Along					Enter GIB				T
Wall or Bra	cing Line	Bracing Elem	nents provided		Brace Lengt	n		Wind	Earthq.
1	2	3	4	5	7	8	6	9W	10EQ
Line Label	Minimum BUs Req/Ach	Bracing Element No.	Supplier	Bracing Type	Available Wall Length L(m)	Element Height H (m)	Angle to Bracing line (degrees)	BUs Achieved	BUs Achieve
A	enter	1	Skybrace	SkyPanel 150 2400	2.4	2.4		91	64
		2							
line totals		3							
W	91	4							
EQ	64	5							
В	enter	1	Skybrace	SkyPanel 150 2400	2.4	2.4		91	64
		2							
ine totals		3							
N	91	4							
EQ	64	5							
C	enter	1							
	The later of the	2							
ne totals		3							
V	Car Commen	4	1774 4 177	V	LETIC TRUCTION:	CH			
Q		5				LTD			
)	enter	1		14 Normanby Street, PO I Dargaville, 0340	Box 328				
		2		Phone: 09 439 4700					
ne totals	36.6	3		Fax: 09 439 4900 Mobile: John 0274 972 11	6 SKYLIN	JE _			
V		4		Email: vconstruct@xtra.co.	nz				
Q		5							
								Wind	Earthq.
otals Achie	ved		THE RESERVE OF THE PARTY OF THE				HTT	181	128
							As fire	ОК	OK
otals Requi	red from Bracin	g Requiremen	nts Sheet					174	121

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M	enter	1	Skybrace	Sky600	0.6	2.4	62	56
		2	Skybrace	Sky1200 60mm	1.2	2.4	95	95
fine totals		3						
W	157	4						
EQ	151	5						
N	enter	1	Skybrace	Sky1200 60mm	1.2	2.4	95	95
		2	Skybrace	Sky600	0.6	2.4	62	56
line totals		3						- 00
W	157	4						
EQ	151	5						
0	enter	1						
		2						
line totals		3					The second second	
W		4						
EQ		5	4				FAR	
P	enter	1					FAR NOR	
142 63 0472		2		1			1	TH DISTA
line totals		3					Apr	1872
W		4					Ula	
EQ		5						Docum
ic Buero							Wind	Earthq.
Totals Achie	eved						314	302

Skyline Bracing Element Ratings

Totals Required from Bracing Requirements Sheet

Supplier	System	Length (m)	BUs W/m	BUs EQ/m	Supplier	System	Length (m)	BUs W/m	BUs EQ/m
Skybrace	Sky600	0.6	103	93	Skybrace	Sky1800	1.8	72.20	70
Skybrace	Sky1200 60m	1.2	79.20	79.20	Skybrace	Sky2400	2.4	63.80	58.8

OK

300

OK

121





# "Skyline" Cladding Specification

### **Exterior Walls**

- Exterior Lining-prepainted .55mm gauge aluminium/zinc alloy steel weatherboard (Colorcote) cold roll-formed profile.
- Refer to Technical Information brochure from "Colorcote Prepainted Metal Products" for material and coating specifications.

# Roofing

- Roofing iron is long-run 0.4mm pre-painted zincaluminium alloy coated steel 6 rib "Skyrib" cold roll-formed trapezoidal profile unless otherwise stated on the plans.
- Refer to Technical Information brochure from "Colorcote Pre-painted Metal Products" for material and coating specifications.

Approved Documents

Technical Services Skyline buildings 20 September 2006



# "Skyline" Cladding Specification

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Approved Documents

Technical Services Skyline buildings 20 September 2006



TRUSS DETAILS

Approved Documents



# PRODUCER STATEMENT - PS1 - (DESIGN)

All roof trusses for **Skyline Buildings Ltd.** reflected in this producer statement comply with revised Building Act (2004) and Approved Documents B1 (Structure) & B2 (Durability). The roof trusses covered by this PS1 have a drawing job no. **19476a** and are attached.

The truss designs for this project have been determined using computer software provided by the Technical Division within Pryda Truss Systems. The software is maintained and overseen by chartered engineers in Australia and New Zealand to comply with the building codes in both countries. In New Zealand the software is regularly checked for structural integrity and building code compliance by the writer and various other staff.

### DESIGN CRITERIA

Roofing – Corrugated Iron
Top chord purlins restraints
Bottom chord restraints

Maximum truss spacing
Standard roof pitch

Ceiling –Nil
- 1000 mm
- 1500 mm
- 1200 mm
- 15 deg

Design wind speed - 46m/s (equal to 50m/s for residential)

Open ground snow load - 1.0 kPa

Int. pressure coefficient up - 0.2 Building important level - 1

I believe on reasonable grounds the building, if constructed in accordance with the drawings, specifications, and other documents provided or listed in the attached schedule, will comply with the relevant provisions of the Building Code.

These designs are in accordance with sound and widely accepted engineering principles and comply with the following New Zealand Standards:

AS/NZS 1170: 2002 Structural Design Actions

NZ3603: 1993 Timber Design

AS1649 : 2001 Determination of Basic Working Loads for Metal Fasteners

for Timber

All trusses shall be manufactured in accordance with the fabrication specifications provided by Pryda, and installed, connected and braced in accordance with the recommendations given in: AS4440:2004 "Installation of nail plated timber roof trusses" and any other supplementary details that may be provided.

The total maximum amount of damages payable arising from this statement and all other statements provided to the Building Consent Authority in relation to this building work, whether in contract, tort or otherwise (including negligence), is limited to the sum of \$500,000.

26 November 2013

Andre' van Blerk

BSc (Eng) MIPENZ (214689) CPEng IntPE Pryda NZ (a division of ITW New Zealand) Engineering Department

DDI: 09 477 2964 MOB: 021 790 946

:: Pryda New Zealand

Head Office: F3, 14-22 Triton Drive, Albany, Auckland Free Phone: 0800 88 22 44 Website: <a href="https://www.pryda.co.nz">www.pryda.co.nz</a>

Offices in Napier, Wellington and Christchurch.
For contact details in your area visit <a href="www.pryda.co.nz">www.pryda.co.nz</a> or email <a href="mailto:office@pryda.co.nz">office@pryda.co.nz</a>



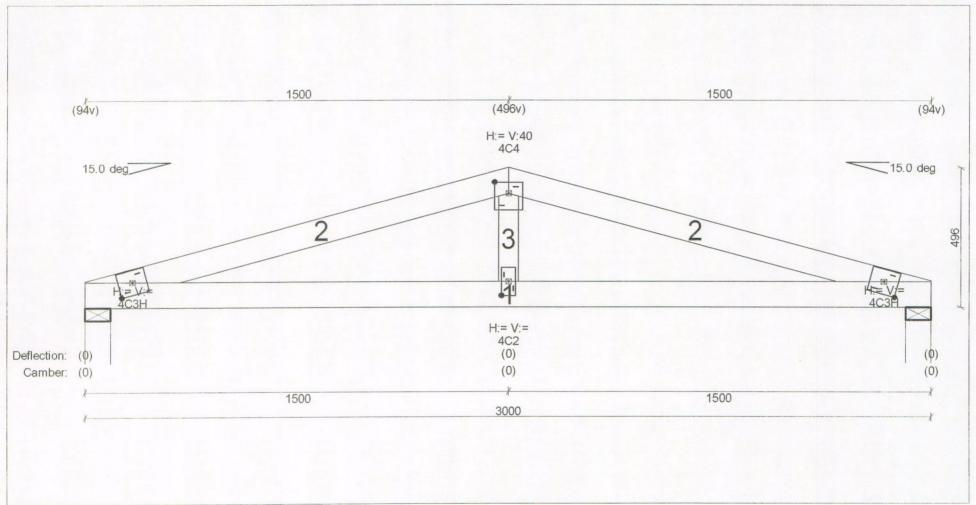
Pryda New Zealand A Division of ITW NZ Pty Ltd CHRISTCHURCH Ph (03) 964 4515 Fax (03) 964 4517

Customer: Skyline Detailer: <None> Job: 19476a

# PRODUCTION SHEET

Pryda Build - Version 3.0.7 Date: 26-11-2013 13:55 Page 12

Job: 19476a "S1" - 1 Single Truss - (45mm thick) Approx truss weight : 12 kg



# **Timber Group: MSG**

ID	Type	Timber	Qty	Length	Bracing
1	BC	90MSG8 H1_2	1	3000	
2	TC	90MSG8 H1 2	2	1553	

ID	Type	Timber	Qty	Length	Bracing
3	Web	70MSG8 H1_2	1	313	