

Self-Certification User Guide - v1.2

Self-Certification



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User Prerequisite Qualification

User Qualification

Users of the software must be:

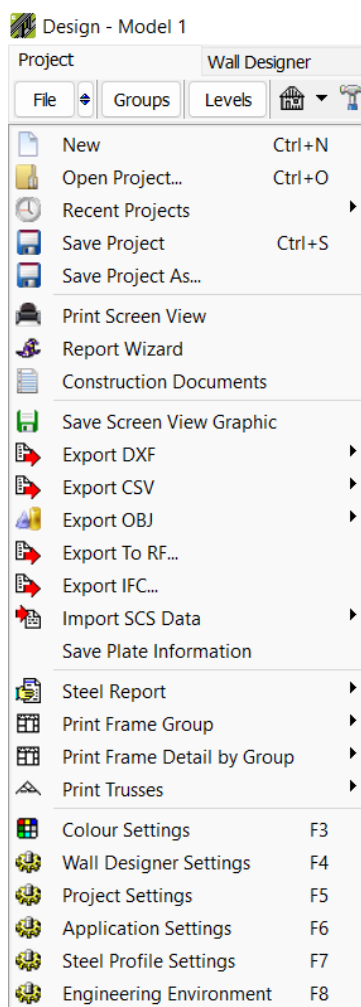
- Fully trained in accordance with the Scottsdale Training Manual with a Certificate of completion.
- Fully identified and recognised by Scottsdale as a competent user with experience in construction and/or manufacturing of trusses.
- Fully informed by Scottsdale on any up-to-date enhancements/additions to the software.
- The validity of the certification will last a period of no more than 3 years.

Engineering Environment

Getting Started

Self-Certification is a function that depends on the settings the user selects within the ScotEnvironment application.

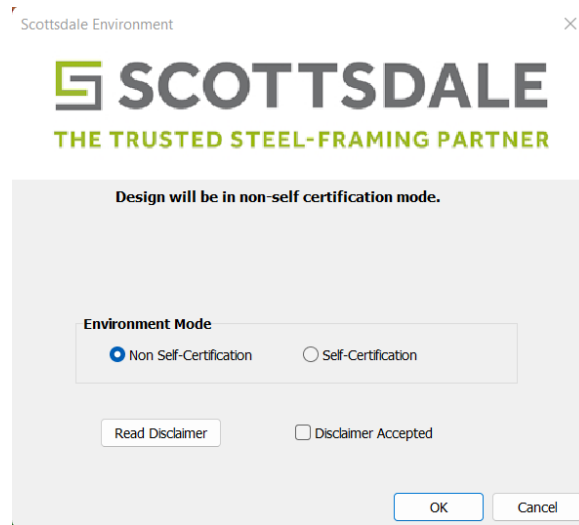
The Environment program is launched by selecting “Engineering Environment” from the File menu in ScotSteel:



When starting a new design file, the design must first be saved with a filename before you can launch the Environment program.

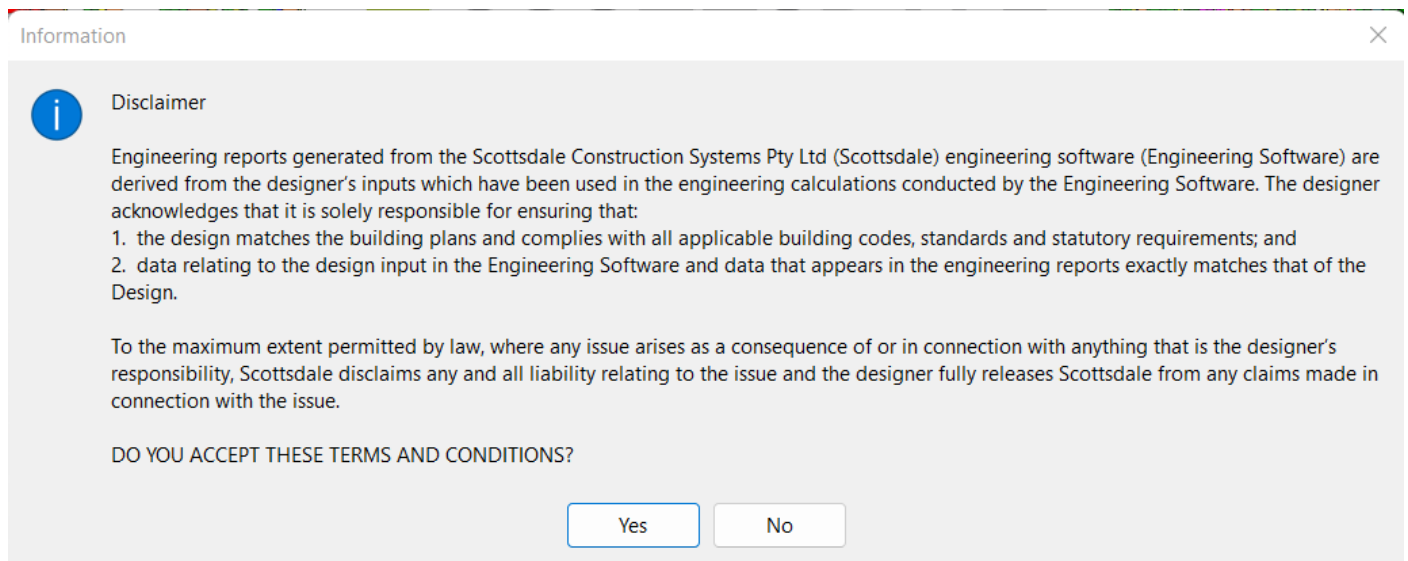
Selecting the File menu when on the Project tab will present the “Engineering Environment” option at the bottom of the menu, as shown above. Clicking on this menu item will show the window below.

Self-Certification Mode: Main Page



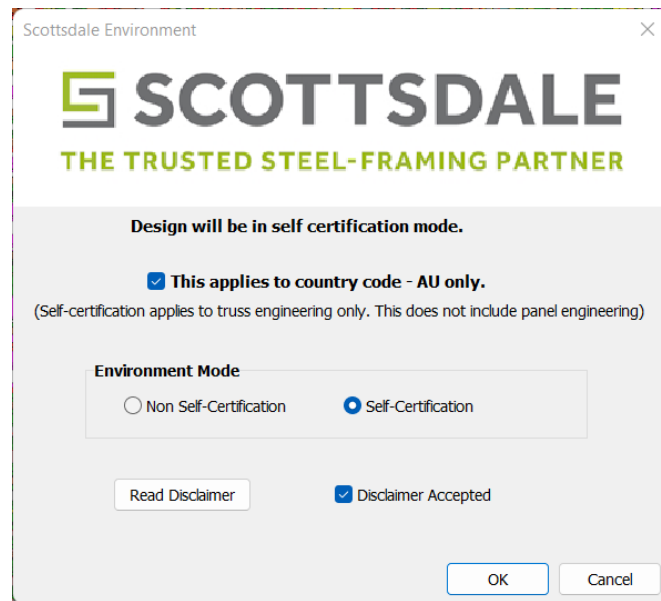
The Scottsdale Environment screen will default to “Non Self-Certification” the first time it is run. This will launch the normal Environment form as per previous versions of SCSDesign.

Like the previous version, the Disclaimer must be accepted before proceeding. Clicking on the “Read Disclaimer” button will present the user with the following screen:



Clicking the “Yes” button will close the window and automatically check the box “Disclaimer Accepted”, allowing the user to proceed.

If the user clicks on the “Self-Certification” option, the screen will change to the below:



Scottsdale Environment

SCOTTSDALE
THE TRUSTED STEEL-FRAMING PARTNER

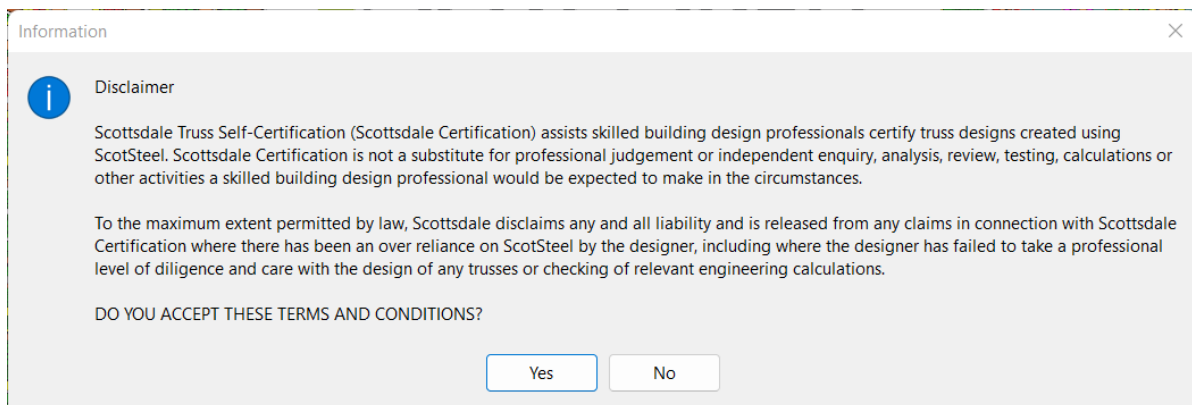
Design will be in self certification mode.

☒ **This applies to country code - AU only.**
(Self-certification applies to truss engineering only. This does not include panel engineering)

Environment Mode

☐ Non Self-Certification ☒ Self-Certification

☒ Disclaimer Accepted



Information

Disclaimer

Scottsdale Truss Self-Certification (Scottsdale Certification) assists skilled building design professionals certify truss designs created using ScotSteel. Scottsdale Certification is not a substitute for professional judgement or independent enquiry, analysis, review, testing, calculations or other activities a skilled building design professional would be expected to make in the circumstances.

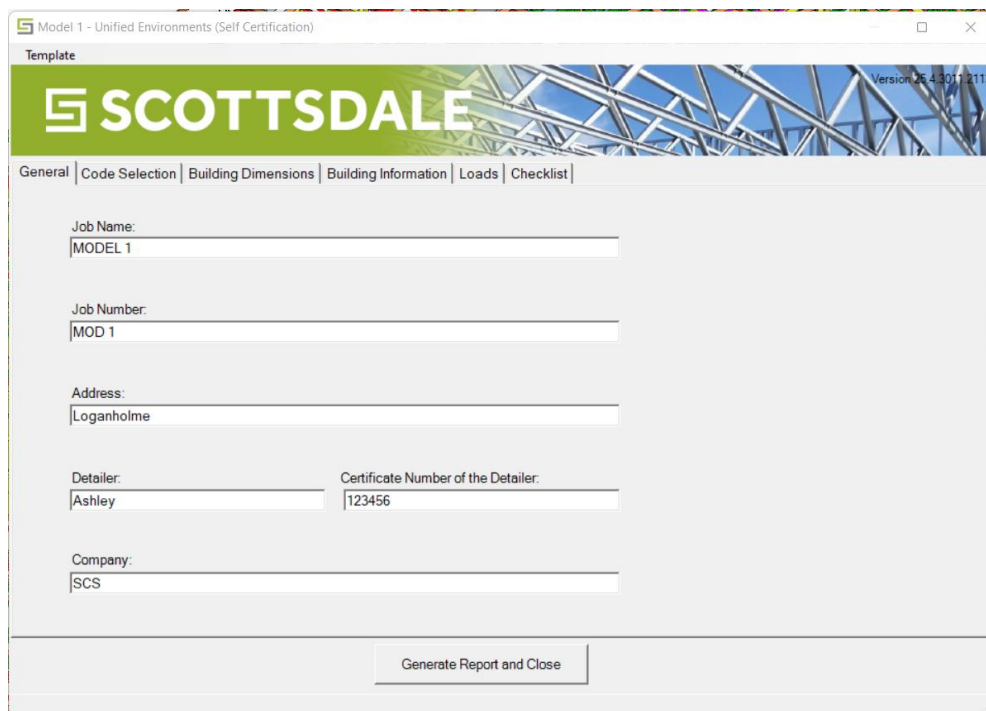
To the maximum extent permitted by law, Scottsdale disclaims any and all liability and is released from any claims in connection with Scottsdale Certification where there has been an over reliance on ScotSteel by the designer, including where the designer has failed to take a professional level of diligence and care with the design of any trusses or checking of relevant engineering calculations.

DO YOU ACCEPT THESE TERMS AND CONDITIONS?

Similar to choosing the Non Self-Certification option, the user must click on the “Disclaimer Accepted” button to proceed. They also must click on the “This applies to country code – AU only” checkbox to continue - Self-Certification mode is currently only available for the Australia building code (AU).

If both checkboxes are selected, the user can then click the “OK” button to launch the Self Certification Environment program.

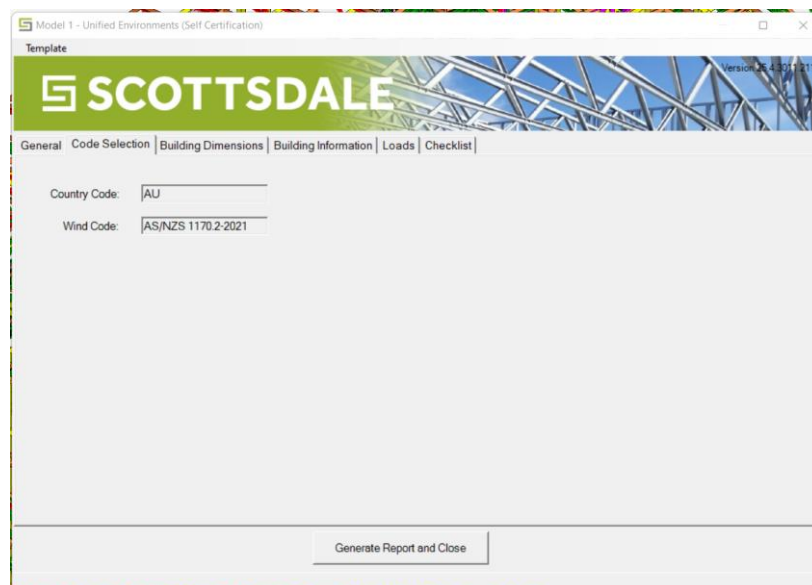
Self-Certification Mode: General



On this first tab - General, the user enters the Job Name, Job number, Address, Detailer and Company. These are not mandatory fields but are used for informational purposes on the Engineering report.

Self-Certification Mode: Code Selection

The next tab “Code” is for informational purposes only and cannot be edited in Self Certification mode:



Self-Certification Mode: Building Dimensions

Selecting the “Building Dimensions” tab allows the user to enter the building’s width, length, roof height and roof pitch.



Model 1 - Unified Environments (Self Certification)

Template

SCOTTSDALE

Version 25.4.3011.2113

General | Code Selection | **Building Dimensions** | Building Information | Loads | Checklist

Building Width: (mm) [Help](#)

Building Length: (mm)

Average Roof Height: (mm) [Help](#)

Min. Roof Pitch: (deg)

Max. Roof Pitch: (deg)

Shape of Roof:

Modular Build: ☐ [Help](#)

[Generate Report and Close](#)

These values must meet set limits for the design to be eligible for Self-Certification, as follows:

- Building Width < 16000 mm
- Building Length < 5x Building Width
- Average Roof Height < 7250 mm (this is based on Ground to eave height < 6000 mm and Ground to highest point < 8500 mm)
- Roof Pitch < 35 degrees
- For modular build the dimensions for the entire structure should not exceed the specified dimensions

These fields have validation to ensure they have values entered, and values meet the conditions listed above:

The screenshot shows the 'Model 1 - Unified Environments (Self Certification)' application window. The 'Template' tab is active, displaying the SCOTTSDALE logo and a navigation bar with tabs: General, Code Selection, Building Dimensions, Building Information, Loads, and Checklist. The 'Building Dimensions' tab is selected, showing input fields for Building Width, Building Length, Average Roof Height, Min. Roof Pitch, Max. Roof Pitch, Shape of Roof, and a checkbox for Modular Build. A modal dialog box is displayed in the center, titled 'Checklist must be completed', with an information icon and the text 'Please ensure all checklist questions and fields are completed before saving'. An 'OK' button is at the bottom right of the dialog. A 'Generate Report and Close' button is located at the bottom of the main window.

Not meeting the conditions above will result in the user being alerted to the problem and not being able to proceed until corrected.

Model 1 - Unified Environments (Self Certification)

Template

Version 25.4.3011.2113

SCOTTSDALE

General | Code Selection | **Building Dimensions** | Building Information | Loads | Checklist

Building Width: (mm) [Help](#)

Building Length: (mm) [Help](#)

Average Roof Height: (mm) [Help](#)

Min. Roof Pitch: (deg)

Max. Roof Pitch: (deg)

Shape of Roof:

Modular Build: ☐ [Help](#)

Building length must be greater than 1 and less than 5 x building width

[Generate Report and Close](#)

Self-Certification Mode: Building Information

The Building Information tab operates the same as with the previous version, and must have valid values selected for all fields:

Model 1 - Unified Environments (Self Certification)

Template

Version 25.4.3011.2113

SCOTTSDALE

General | Code Selection | Building Dimensions | Building Information | Loads | Checklist

Building Use:

Site Altitude: (m)

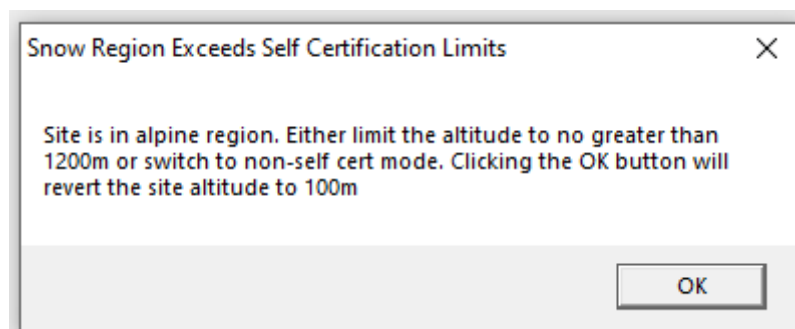
Importance Level: [Help](#)

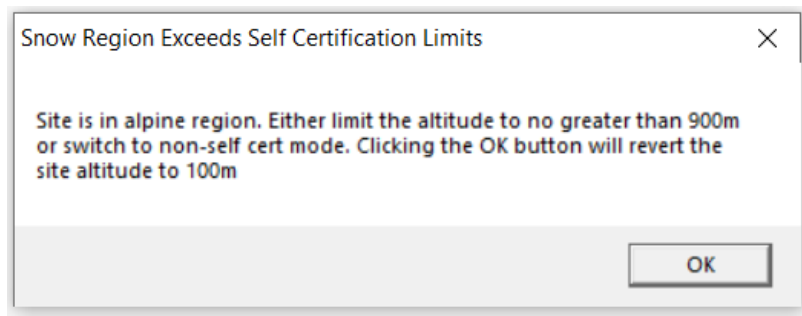
Number of stories:

Building Enclosure: [Help](#)

[Generate Report and Close](#)

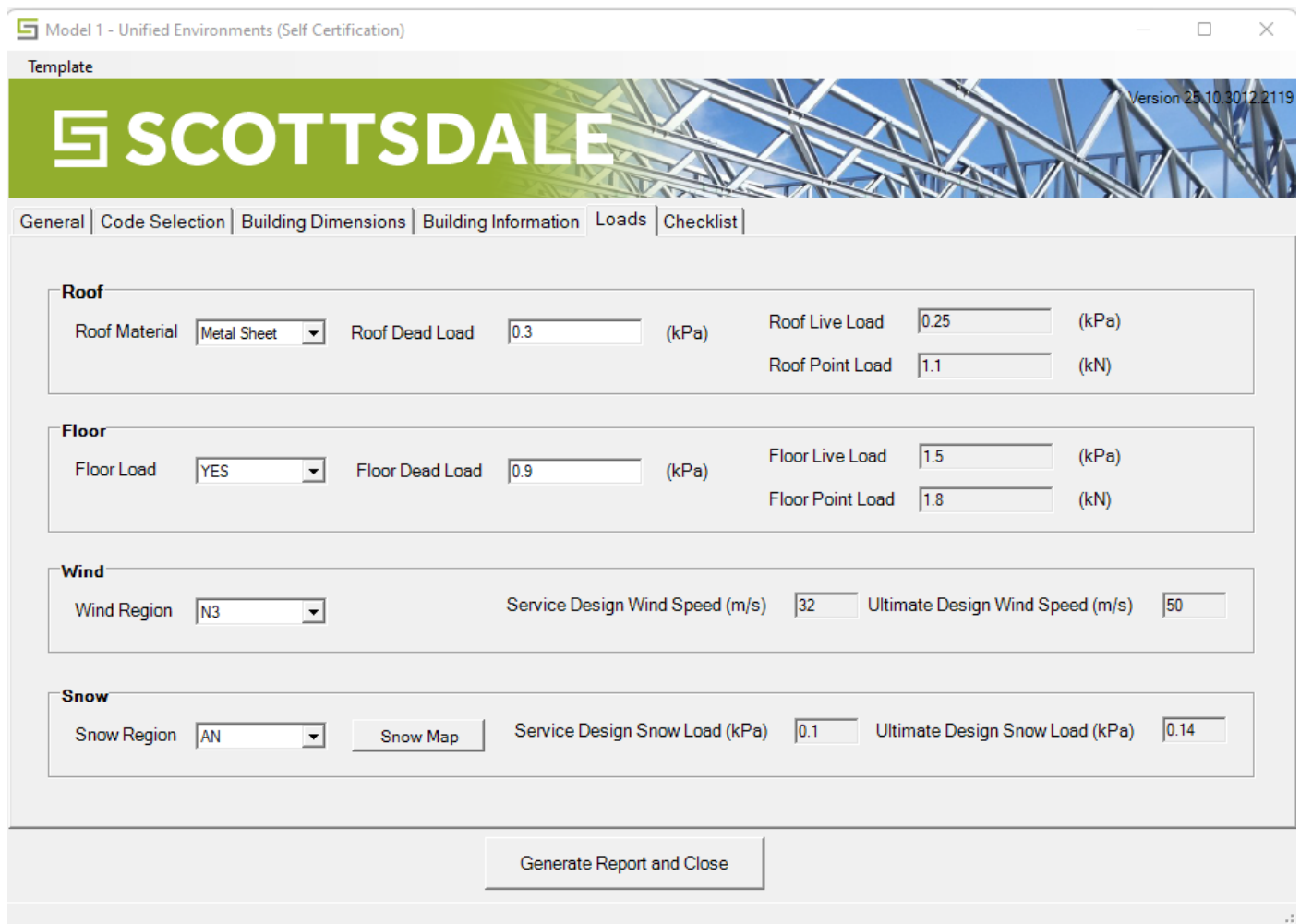
The Site Altitude will have a dependency on Snow Region. Depending on which Snow Region is selected, if the combination of Site Altitude and Snow Region values are not valid, the program will reset the Altitude to 100m and advise the user to correct these or not proceed with self-certification:



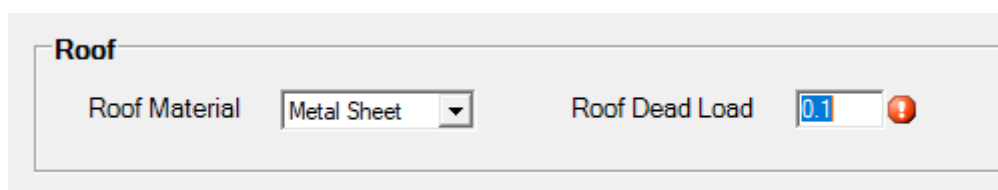


Self-Certification Mode: Loads

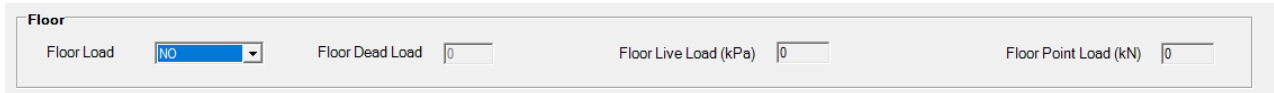
The “Loads” tab is for entering Roof, Floor, Wind and Snow load information:



The Roof Material pulldown contains two items: “Metal Sheet” and “Concrete Tile”, with respective default values of 0.25 and 0.75. These are the minimum values allowed for Roof Dead Load. Entering lower values will result in an error advising the user to enter a higher value:



If Floor Load is “NO” then the Floor Dead Load textbox will be set to 0 and be disabled:

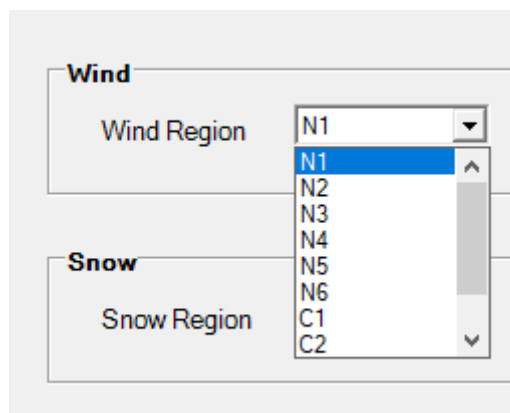


Setting Floor Load to “YES” defaults the Floor Dead Load to 0.9 kPa (as per screenshot above). This value is editable and must be a value ≥ 0.9 kPa.

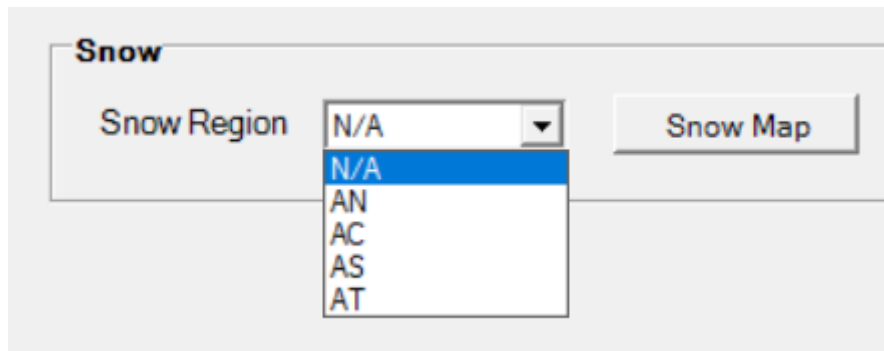
All the live loads and point loads will be hard-coded; however, they are both subject to change based on the building type. All the Wind and Snow load values will be calculated based on the user selection.

Wind Region

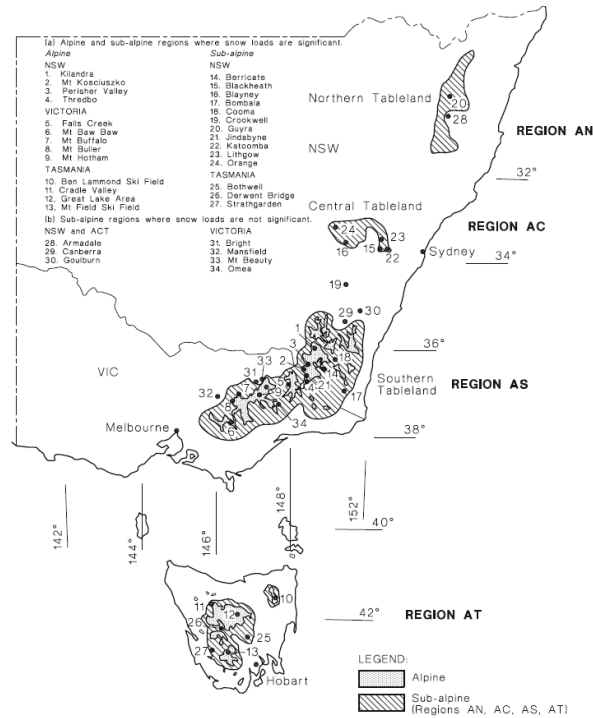
In the Wind Region pull-down list, the user can select one of 6 non-cyclonic wind regions or one of 4 cyclonic regions. By selecting C1...C4, the report will reflect this as Cyclonic:



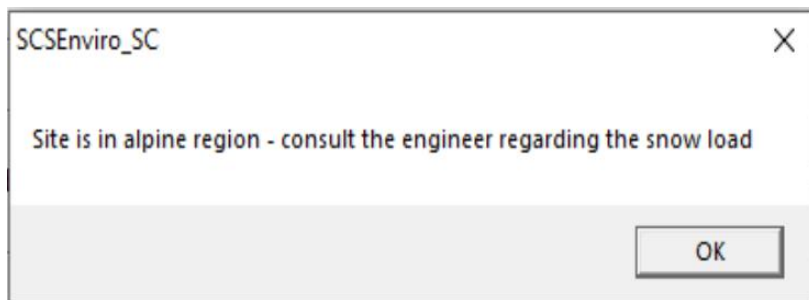
Snow Region



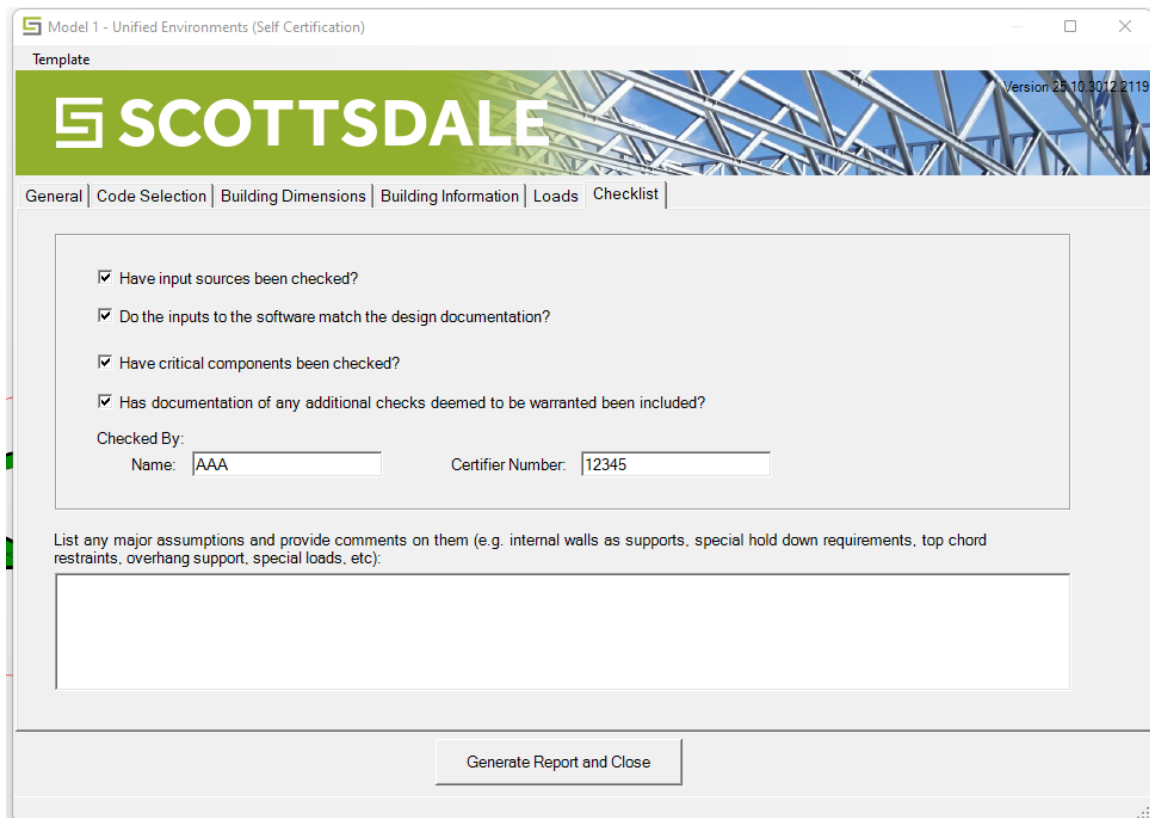
There are four (4) possible snow regions in Australia to select from. Clicking on the Snow Map button will show where in Australia each region is located. For any designs being built in any other region not shown on the map, select “N/A”.



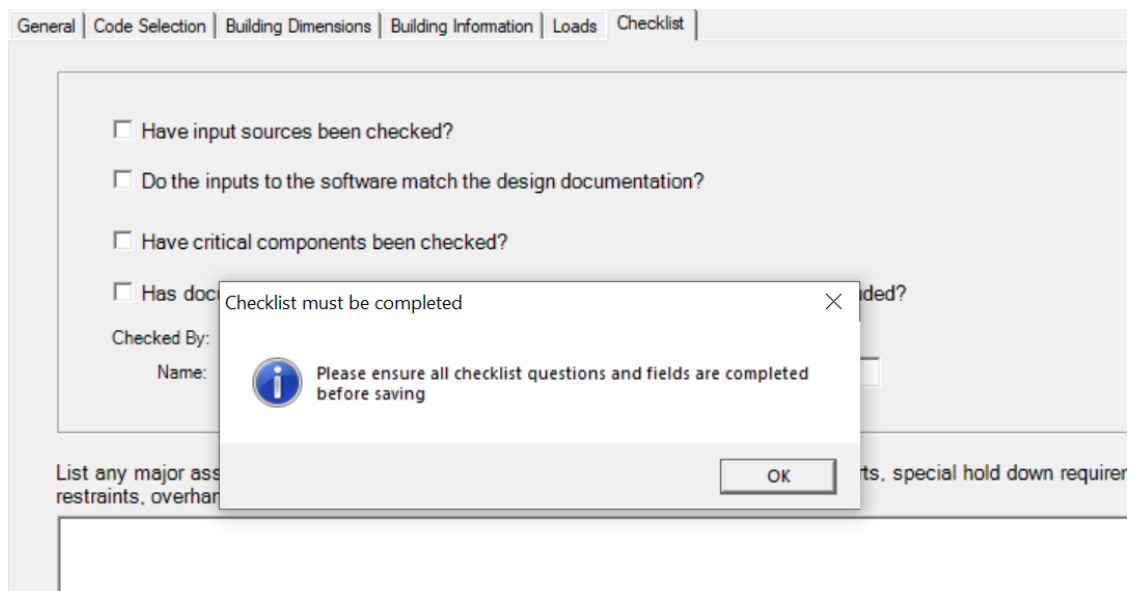
As previously mentioned, the Snow Region will have a dependency on Altitude. If the combination of values is not valid, the program will reset the Altitude to 100m and advise the user to correct these or not proceed with self-certification:



Self-Certification Mode: Checklist




The last tab is a checklist that must be completed for the design to be self-certified. Must be checked by two people from the same company, and must be both certified



Self-Certification Mode: Generate Report/Close

Once all settings have been entered and are ready to save, the user will click on the “Generate Report and Close” button. This action will save the values to a configuration/settings file to be used in the other Scottsdale software modules and when the environment application is called again in future for this same design, the values saved from the previous time will be persistent.

Upon the application closing, it will also generate a PDF report. This report for self-certification will be similar to the existing (non self-certification) report, but will also be labelled “SELF CERTIFIED FOR TRUSSES ONLY”:

 THE TRUSTED STEEL-FRAMING PARTNER Version 25.4.30f1.2113	Project Name	Model 1	Project No.	123
	Address	Loganholme		
	Company	SCS		
	Detailer	TR	Certificate No.	1222
	Reference	Model 1 - Unified Environments (Self Certification)		

Disclaimer
<p>Disclaimer</p> <p>Scottsdale True Self Certification (Scottsdale Certification) assists skilled building design professionals verify their designs created using ScottSteel. Scottsdale Certification is not a substitute for professional judgement or independent enquiry, analysis, review, testing, calculations or other activities a skilled building design professional would be expected to make in the circumstances.</p> <p>To the maximum extent permitted by law, Scottsdale disclaims any and all liability and is released from any claims in connection with Scottsdale Certification where there has been an over reliance on ScottSteel by the designer, including where the designer has failed to take a professional level of diligence and care with the design of any trusses or checking of relevant engineering calculations.</p>

SELF CERTIFIED FOR TRUSSES ONLY

BUILDING DATA	
country code	AU
wind code	AS/NZS 1170.2-2021 and AS 4055
building use (code)	A
importance level	2
annual prob. of exceedence - wind, (1/x)	500
annual prob. of exceedence - snow, (1/x)	150
annual prob. of exceedence - EQ, (1/x)	500
building length, (mm)	20000
building width, (mm)	15000
roof type	Hip
max. roof pitch, (deg)	20.00
min roof pitch, (deg)	10.00
roof height, (mm)	5000
modular build	False
number of stories	2
is building enclosed	Enclosed
roof material	Metal Sheet

SITE DATA	
elevation above sea level, (m)	100
wind region	N1

GRAVITY LOADS			
	dead load, (kPa)	live load, (kPa)	point load, (kN)
roof	0.3	0.25	1.1
ceiling under roof	n/a	0	1.1

WIND CALCULATION	
service design wind speed (m/s)	26
ultimate design wind speed (m/s)	34
service dynamic pressure (kPa)	0.406
ultimate dynamic pressure (kPa)	0.694

SNOW CALCULATION	
region	AS
elevation above sea level, (m)	100
ground snow load, (kPa)	0
Exposure Reduction Coefficient	1
service snow load, (kPa)	0
ultimate snow load, (kPa)	0

LOAD SUMMARY	
wind uplift service (roof), (kPa)	-0.353
wind uplift service (canopy), (kPa)	-0.694
wind uplift ultimate (roof), (kPa)	-0.603
wind uplift ultimate (canopy), (kPa)	-1.186
wind pressure service (roof), (kPa)	0.183
wind pressure service (canopy), (kPa)	0.389
wind pressure ultimate (roof), (kPa)	0.312
wind pressure ultimate (canopy), (kPa)	0.666
roof dead load, (kPa)	0.3
roof imposed load, (kPa)	0.25
roof point load, (kN)	1.1
service snow load, (kPa)	0
ultimate snow load, (kPa)	0
roof ceiling dead load, (kPa)	n/a
roof ceiling live load, (kPa)	0
roof ceiling point load, (kN)	1.1
floor dead load, (kPa)	n/a
floor live load, (kPa)	n/a
floor point load, (kN)	n/a
floor ceiling dead load, (kPa)	n/a
floor ceiling live load, (kPa)	n/a
floor ceiling point load, (kN)	n/a
wind face load service (walls), (kPa)	0.365
wind face load ultimate (walls), (kPa)	0.624
wall dead load (hardcoded), (kPa)	n/a
wind internal wall face load service, (kPa)	-0.122
wind internal wall face load ultimate, (kPa)	-0.208

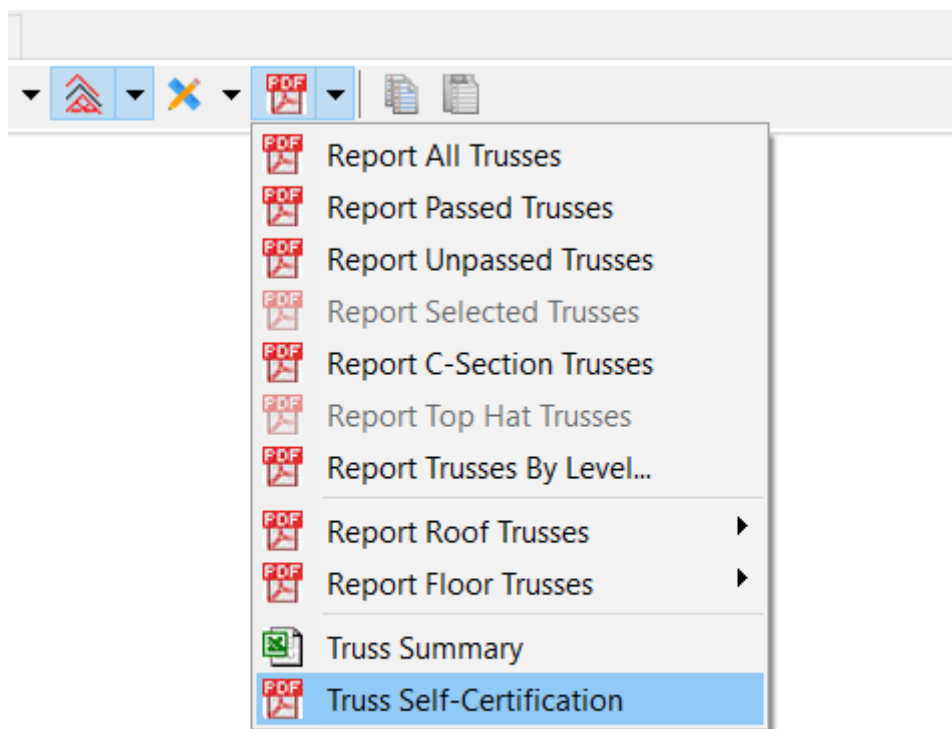
SOFTWARE CHECKLIST	
Self-Certification (AU Trusses) version number	1.0
Software version number	25.4.3011.2113
Have input sources been checked?	Yes
Do the inputs to the software match the design documentation?	Yes
Have critical components been checked?	Yes
Has documentation of any additional checks deemed to be warranted been included?	Yes
Certifier Name	AAA
Certifier Number	12345
List any major assumptions and provide comments on them (e.g. internal walls as supports, special hold down requirements, top chord restraints, overhang support, special loads, etc)	-

Self-Certification Mode: Added Features

Self-Certified Design Reports

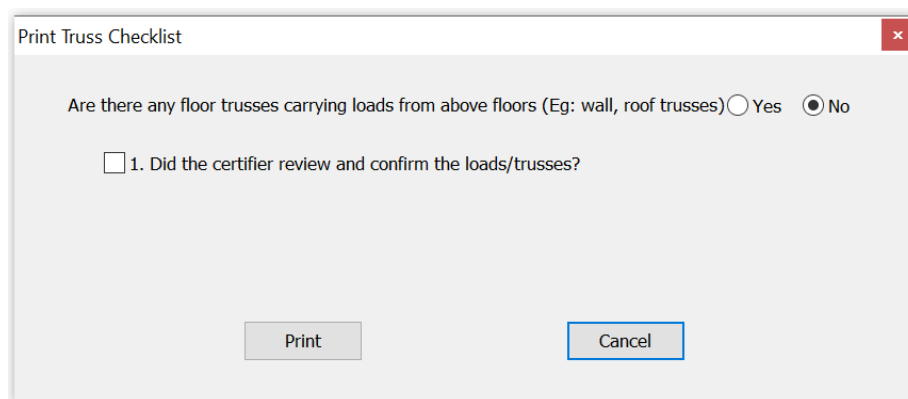
The truss reports now have a checklist cover page for self-certified designs.

Note: Truss Reports can be generated based on the selection below. The Truss Self-Certification Certificate can be created in the below highlighted tab 'Truss Self-Certification'



There are four possible scenarios, documented below.

When reporting on trusses from the design software, if the environment has been set up as self-certification, the user will now be prompted with the following options:



Print Truss Checklist

Are there any floor trusses carrying loads from above floors (Eg: wall, roof trusses) ☐ Yes ☒ No

☐ 1. Did the certifier review and confirm the loads/trusses?

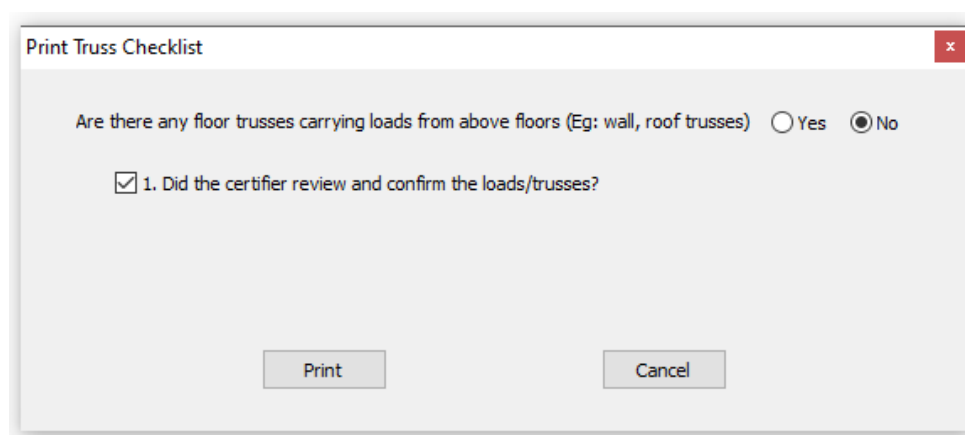
Print Cancel

1. If “No” is selected for the first question, only question 1 is visible. If the certifier has NOT reviewed and confirmed the loads, the following appears on the first page of the truss report:

Checklists apply to Self Certified designs

Checklist	Yes/No
Are there any floor trusses carrying loads from above floors (e.g. wall, roof trusses)	No
1. Did the certifier review and confirm the loads/trusses?	No

**If the certifier has not reviewed and confirmed the loads
then Self-Certification is not valid.**



Print Truss Checklist

Are there any floor trusses carrying loads from above floors (Eg: wall, roof trusses) ☐ Yes ☒ No

☒ 1. Did the certifier review and confirm the loads/trusses?

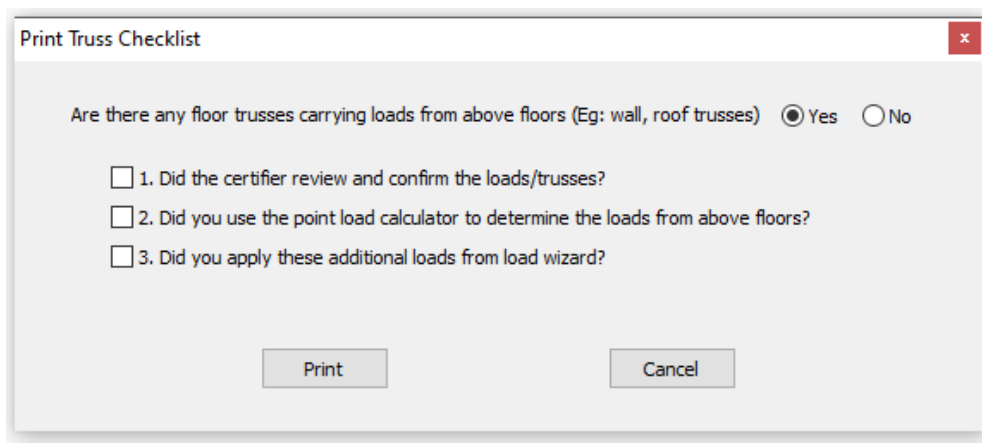
Print Cancel

2. If “No” is selected for the first question and the certifier selects that they HAVE reviewed and confirmed the loads, the following appears on the first page of the truss report:

Checklists apply to self certified designs

Checklist	Yes/No
Are there any floor trusses carrying loads from above floors (e.g. wall, roof trusses)	No
1. Did the certifier review and confirm the loads/trusses?	Yes

3. If “Yes” is selected, the screen shows all three questions:



Print Truss Checklist

Are there any floor trusses carrying loads from above floors (Eg: wall, roof trusses) ☒ Yes ☐ No

☐ 1. Did the certifier review and confirm the loads/trusses?

☐ 2. Did you use the point load calculator to determine the loads from above floors?

☐ 3. Did you apply these additional loads from load wizard?

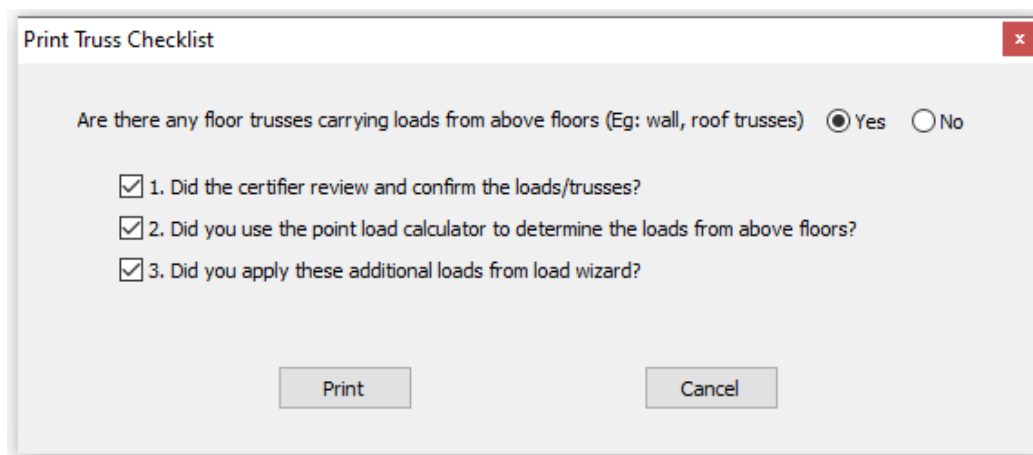
If any of the checkboxes 1-3 are NOT selected, the following warning message appears on the report:

Checklists apply to self certified designs

Checklist	Yes/No
Are there any floor trusses carrying loads from above floors (e.g. wall, roof trusses)	Yes
1. Did the certifier review and confirm the loads/trusses?	No
2. Did you use the point load calculator to determine the loads from above floors?	No
3. Did you apply these additional loads from load wizard?	No

If any of the above checklist items 1-3 are "No" then self certification is not valid.

4. If "Yes" is selected and all checkboxes 1-3 are checked, the previous tables document will reflect this with no warning messages.



Print Truss Checklist

Are there any floor trusses carrying loads from above floors (Eg: wall, roof trusses) ☒ Yes ☐ No

☒ 1. Did the certifier review and confirm the loads/trusses?

☒ 2. Did you use the point load calculator to determine the loads from above floors?

☒ 3. Did you apply these additional loads from load wizard?

Below is the complete cover page for the Truss Engineering report:

Checklists apply to self certified designs

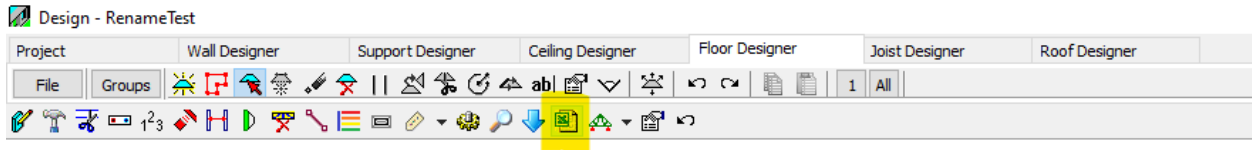
Checklist	Yes/No
Are there any floor trusses carrying loads from above floors (e.g. wall, roof trusses)	Yes
1. Did the certifier review and confirm the loads/trusses?	Yes
2. Did you use the point load calculator to determine the loads from above floors?	Yes
3. Did you apply these additional loads from load wizard?	Yes

Sign Off By	
Designer Name:	Ashley
Designer Certification Number:	123456
Certifier Name:	Thanuja
Certifier Certification Number:	Ranawaka

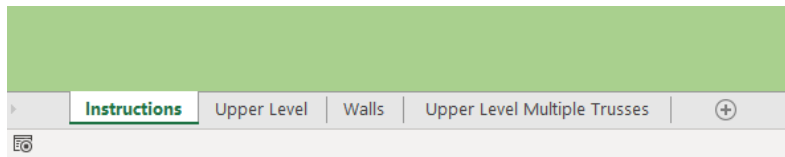
Item	Yes/No
Have site storage and lifting caused any damage to the components?	
Have approved plans and layouts been followed?	
Have connection, fixing and hold-down specifications been followed?	
Have instructions from the manufacturer been supplied and followed?	

Point Load Calculator

This calculator is accessed from the following toolbar button in the Floor Designer tab in the SCS Design software:



This spreadsheet initially contains 4 tabs to assist in calculating point loads:



Instructions tab

This tab provides a link to the Knowledge Base, which explains the purpose of this spreadsheet and includes instructions on how to use it with the files for a specific design.

[How to use the Floor Truss Point Load Calculator](#)

Instructions

How to use this Calculator...

For details about how to use the Point Load Calculator for Floor Trusses, please visit the Scottsdale Knowledge Base article below ...

[How to use the Floor Truss Point Load Calculator](#)



Next

To begin, the user needs to click on the “Next” button. This will take them to the “Upper Level” tab.

Upper-Level tab

[illegible]

Here, the user enters the Floor Truss, Truss number, Bearing Node number, DL-R, DL-C, LL-C and LL-R values. The Total DL and LLs are then calculated.

To move onto the Wall tab, the user can either click the “Walls” button or the “Walls” tab at the bottom of the screen.

Walls tab

Loads coming from walls

Instructions:
Enter the wall height
Change the wall weight only if necessary

Wall weight kPa

Floor Truss	Wall number	Wall height (m)	Wall TL (kN/m)	LL/TL
FT1	34	2.4	0.96	0
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	

Upper Level

Multiple Trusses

To calculate wall loads, the user first enters the Wall Weight in the yellow box above. Then, as per the other tabs, the user enters the Floor Truss, Wall number and Wall height values. Wall TL is then calculated.

To move onto the next tab, the user can either click the “Multiple Trusses” button or the “Upper-Level Multiple Trusses” tab at the bottom of the screen.

Upper-level Trusses

Loads coming from other trusses

Floor Truss: FT1

Truss number	Bearing Node number	DL-R (N)	DL-C (N)	Total DL (kN)	LL-C (N)	LL-R (N)	Total LL (kN)	TL (kN)	LL/TL
T3	12	6.3	1.2	0.0075	1.3	4.2	0.0055		
				0			0		
				0			0		
				0			0		
				0			0		
				0			0		
				0			0		
				0			0		
				0			0		
				0			0		
				0			0		
				0			0		
				0			0		
Total		0.0063	0.0012	0.0075	1.3	0.0042	0.0055	0.013	0.423077

Previous
Next Truss

The user first enters the Floor Truss ID in the yellow box above. Then, as per the other tabs, the user enters the Truss number, Bearing Node number, DL-R, DL-C, LL-C and LL-R values. The Total DL and LLs are then calculated.

For other Upper-Level Trusses, the user can click on the “Next Truss Button create a new Truss tab, which creates a duplicate/blank tab as the one above. This can be repeated for every truss:

Loads coming from other trusses

Floor Truss:

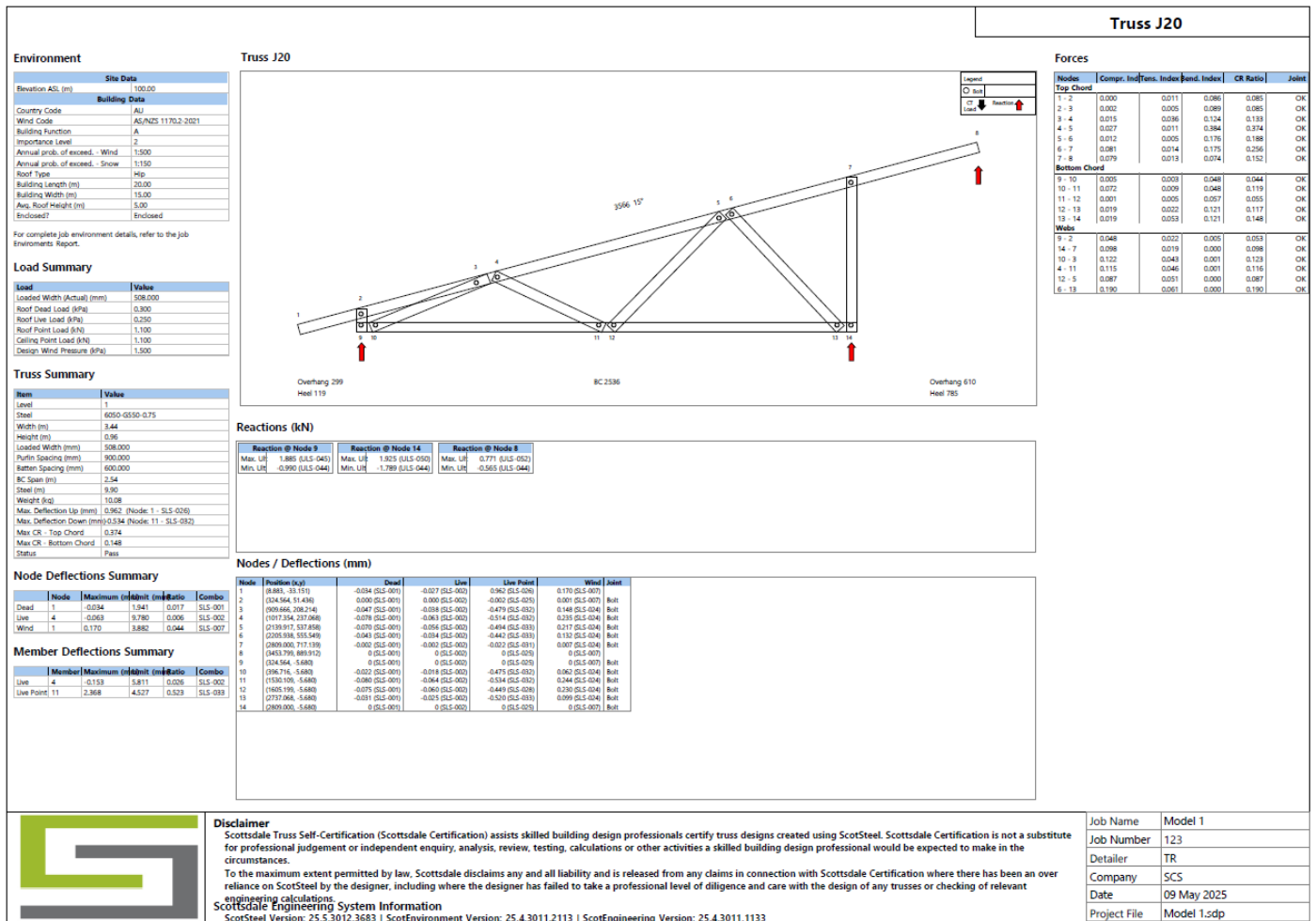
[illegible]

[Previous](#)

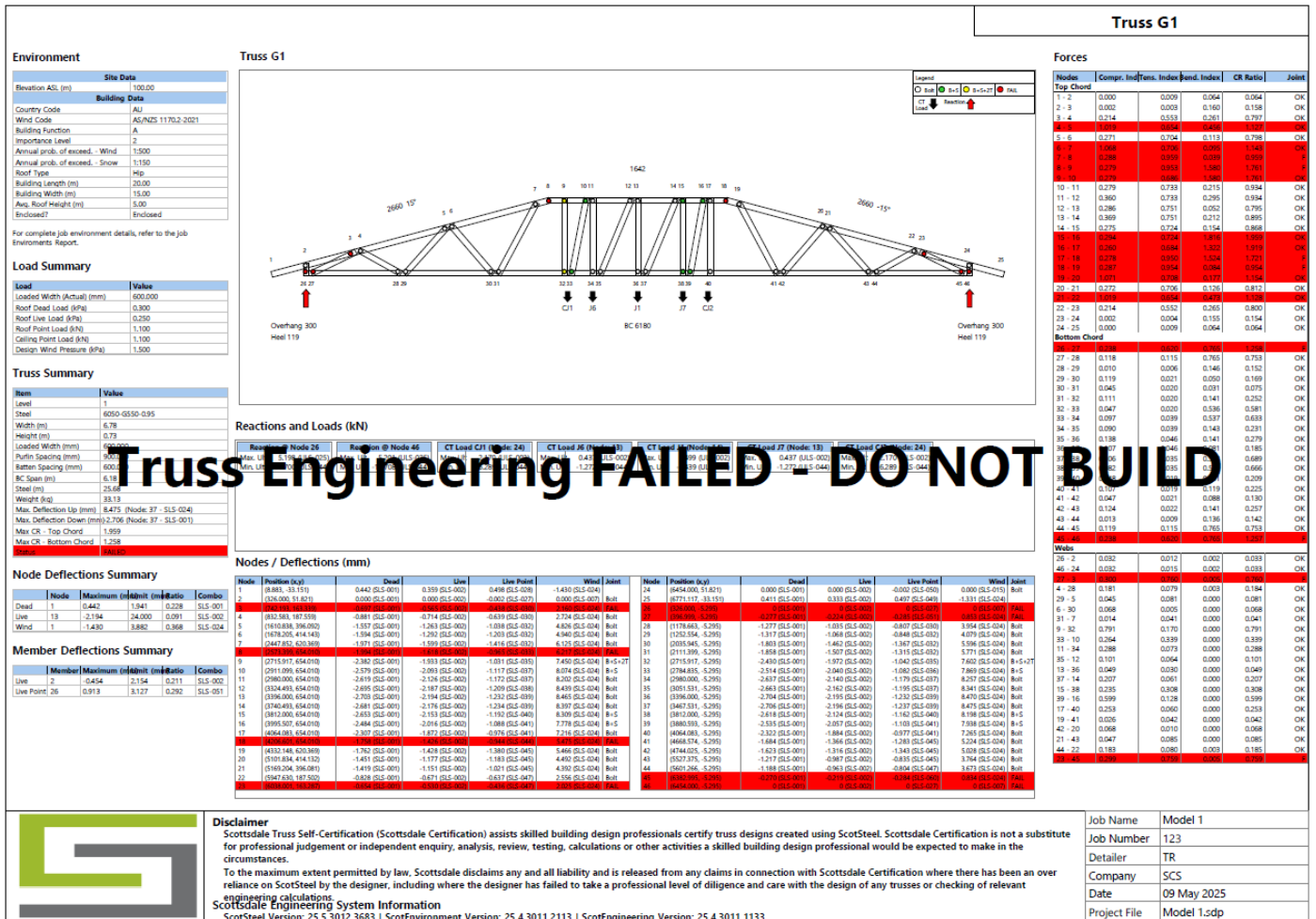
Next Truss

Engineered Truss Reports

The following report shows that Truss J20 has “Passed” Self- Self-Certification Engineering. Therefore, it is accepted for manufacturing.



The following report shows Truss G1 has Not Passed Self- Certification Engineering. Therefore, it is Not accepted for manufacturing and requires adjustment of the truss design.



Tie Down Details

Lastly, the Truss report now includes a complete tie down section. This is a standard (non-changing) document. First page shown as sample below:



Technical Information

Hold Downs for Scottsdale Light Gauge System

TWIST TIE

The Twist Tie is typically used to provide hold down capacity for the SCOT PANEL® Roof Panel and Floor Joist system. They can be attached in multiple configurations for many situations.

Name	Twist Tie
	
Supplier	Simpson
Steel Grade	G350 0.95mm BMT
Use	Roof Panel or Floor Joist Hold Down
Protection	G90/Z275 Galvanizing

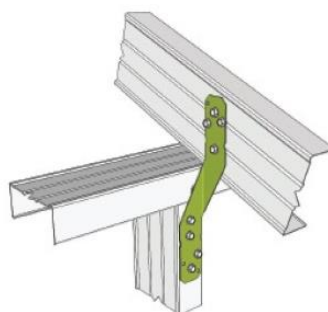
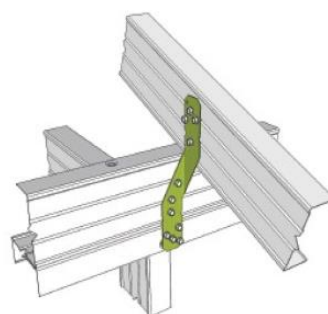
Fixing:

Attach with recommended fasteners. Ensure the correct number of screws are used for the required capacity.

Design Capacities (Uplift kN)

Truss Properties		No. of Screws	Wall Frame - G550		
			0.55	0.75	0.95
G550	0.55	4 & 4	3.08	3.08	3.08
	0.75	4 & 4	3.08	5.92	5.92
	0.95	4 & 4	3.08	5.92	9.18

Truss Properties		No. of Screws	Wall Frame - G350		
			0.75	0.95	1.15
G350	0.75	4 & 4	5.02	5.02	5.02
	0.95	4 & 4	5.02	7.16	7.16
	1.15	4 & 4	5.02	7.16	9.18



RECOMMENDED FASTENERS

HEX HEAD TEK SCREW

10g - 16 x 16mm, HWH. Hex, DP 4.8mm Dia



WAFFER HEAD TEK SCREW

10g - 16 x 16mm, Flat. Ph#2, DP 4.8mm Dia



Self-Certification Certificate

The Self-Certification Certificate ensures that the structural design with respect to trusses complies with engineering principles and is in accordance with the latest Australian Standard and Building Code. The Certificate can be presented to a Local Government Area (LGA) within Australia as proof of certification.


Note: The Truss Self-Certification Certificate can be created in the tab highlighted: 'Truss Self-Certification' (Refer to section 3.1)

Checklists apply to Self Certified designs

Checklist	Yes/No
Are there any floor trusses carrying loads from above floors (e.g. wall, roof trusses)	Yes
1. Did the certifier review and confirm the loads/trusses?	Yes
2. Did the certifier use the point load calculator to determine the loads from above floors?	Yes
3. Did the certifier apply these additional loads from the load wizard?	Yes

Sign Off By	
Designer Name:	TR
Designer Certification Number:	1222
Certifier Name:	AAA
Certifier Certification Number:	12345

Item	Yes/No
Have site storage and lifting caused any damage to the components?	
Have approved plans and layouts been followed?	
Have connection, fixing and hold-down specifications been followed?	
Have instructions from the manufacturer been supplied and followed?	

 <small>THE TRUSTED STEEL-FRAMING PARTNER</small> <small>Version: 25.10.3012.3900</small>	Project Name	Model 1	Project No.	123
	Address	Loganholme		
	Company	SCS		
	Detailer	TR	Certificate No.	1222
	Reference	Model 1.sdp		

Self-Certification of Scottsdale Construction Systems for Trusses

This document certifies that the engineering calculations performed by Scottsdale Construction Systems Pty Ltd (Scottsdale) engineering system (Self-Certification AU Trusses version number 1.0) with respect to trusses in Project No. 123 (Trusses) designed using Scottsdale's design software ScotSteel version 25.10.3012.3900 (ScotSteel) comply with:

- AS/NZS 1170.0:2002 General Principles
- AS/NZS 1170.1:2002 Permanent Imposed and Other Actions
- AS/NZS 1170.2:2011 Wind Actions
- AS/NZS 1173.3:2003 Snow and Ice Actions
- AS 4055: 2012 Wind Load for Housing
- AS/NZS 4600:2018 Cold-formed Steel Structures
- Building Code of Australia 2019 Volume 1 and 2
- NASH Handbook - Design of Residential and Low-rise Steel Framing 2009
- NASH Standard Residential and Low-rise steel framing – Part1 – Design Criteria (2005) – Incorporating Amendment C: September 2011
- NASH Standard Residential and Low-rise Steel Framing – Part2 – Design Solutions (2014) – Incorporating Amendment A:2015

Invalidity

This certificate is invalid where:

1. ScotSteel is not used strictly in accordance with the Self-Certification of Scottsdale Construction Systems for Trusses document (13/10/2025).
2. any certification condition (set out below) has been breached.
3. steel used in Trusses varies from design details used in the engineering calculations in grade, thickness, size or otherwise does not meet applicable building material standards including AS 1397:2011.
4. fasteners, connections, bracing or any other engineered products used in assembling or installing the Trusses vary from those used in the engineering calculations or otherwise does not meet applicable building standards.

Disclaimer

Scottsdale Truss Self-Certification (Scottsdale Certification) assists skilled building design professionals certify truss designs created using ScotsSteel. Scottsdale Certification is not a substitute for professional judgement or independent enquiry, analysis, review, testing, calculations or other activities a skilled building design professional would be expected to make in the circumstances.

To the maximum extent permitted by law, Scottsdale disclaims any and all liability and is released from any claims in connection with Scottsdale Certification where there has been an over reliance on ScotSteel by the designer, including where the designer has failed to take a professional level of diligence and care with the design of any trusses or checking of relevant engineering calculations.

Design details and loads

BUILDING DATA	
country code	AU
wind code	AS/NZS 1170.2 and AS 4055
building use (code)	A
importance level	2
annual prob. of exceedence - wind, (1/x)	500
annual prob. of exceedence - snow, (1/x)	150
annual prob. of exceedence - EQ, (1/x)	500
building length, (m)	20.00
building width, (m)	15.00
roof type	Hip
max. roof pitch, (deg)	20.0
min roof pitch, (deg)	10.0
roof height, (m)	5.00
modular build	False
number of stories	2
is building enclosed	Enclosed
roof material	Metal Sheet

SITE DATA	
elevation above sea level, (m)	100
wind region	N3

GRAVITY LOADS			
	dead load, (kPa)	live load, (kPa)	point load, (kN)
roof	0.25	0.25	1.1
ceiling under roof	0.2	0	1.1
floor	0.9	1.5	1.8
ceiling under floor	0.2	0	1.1

WIND CALCULATION	
service design wind speed (m/s)	32.00
ultimate design wind speed (m/s)	50.00
service dynamic pressure (kPa)	0.61
ultimate dynamic pressure (kPa)	1.50

SNOW CALCULATION	
region	AT
altitude (m)	100
ground snow load, (kPa)	0.00
Exposure Reduction Coefficient	1.00
service snow load, (kpa)	0.00
ultimate snow load, (kpa)	0.00

Trusses

ROOF TRUSSES									
Truss No.	Status	Truss No.	Status	Truss No.	Status	Truss No.	Status	Truss No.	Status
C1	Pass	J10	Pass	J36	Pass	J64	Pass	T6	Pass
C2	Pass	J11	Pass	J37	Pass	J65	Pass	T7	Pass
C5	Pass	J12	Pass	J38	Pass	J66	Pass	T9	Pass
C7	Pass	J13	Pass	J39	Pass	J67	Pass	T10	Pass
C8	Pass	J14	Pass	J40	Pass	J68	Pass	T11	Pass
C10	Pass	J15	Pass	J41	Pass	J69	Pass	T12	Pass
C11	Pass	J16	Pass	J42	Pass	J70	Pass	T13	Pass
CJ1	Pass	J17	Pass	J43	Pass	J71	Pass	T14	Pass
CJ2	Pass	J18	Pass	J46	Pass	J72	Pass	T15	Pass
CJ3	Pass	J19	Pass	J47	Pass	J73	Pass	T16	Pass
CJ4	Pass	J20	Pass	J48	Pass	J74	Pass	T17	Pass
CJ5	Pass	J21	Pass	J49	Pass	J75	Pass	T18	Pass
CJ6	Pass	J22	Pass	J50	Pass	J76	Pass	T19	Pass
CJ7	Pass	J23	Pass	J51	Pass	J77	Pass	T20	Pass
CJ8	Pass	J24	Pass	J52	Pass	J78	Pass	T21	Pass
G2	Pass	J25	Pass	J53	Pass	J79	Pass	T22	Pass
G4	Pass	J26	Pass	J54	Pass	J80	Pass	T23	Pass
J1	Pass	J27	Pass	J55	Pass	J81	Pass	T24	Pass
J2	Pass	J28	Pass	J56	Pass	J82	Pass	T25	Pass
J3	Pass	J29	Pass	J57	Pass	J83	Pass		
J4	Pass	J30	Pass	J58	Pass	J84	Pass		
J5	Pass	J31	Pass	J59	Pass	J85	Pass		
J6	Pass	J32	Pass	J60	Pass	J86	Pass		
J7	Pass	J33	Pass	J61	Pass	T2	Pass		
J8	Pass	J34	Pass	J62	Pass	T4	Pass		
J9	Pass	J35	Pass	J63	Pass	T5	Pass		

FLOOR TRUSSES									
Truss No.	Status	Truss No.	Status	Truss No.	Status	Truss No.	Status	Truss No.	Status
F1	Pass	F16	Pass	F32	Pass	F55	Pass	F70	Pass
F2	Pass	F17	Pass	F33	Pass	F56	Pass	F71	Pass
F3	Pass	F18	Pass	F36	Pass	F57	Pass	F72	Pass
F4	Pass	F19	Pass	F37	Pass	F58	Pass	F73	Pass
F5	Pass	F20	Pass	F38	Pass	F59	Pass	F74	Pass
F7	Pass	F21	Pass	F39	Pass	F60	Pass		
F8	Pass	F22	Pass	F40	Pass	F61	Pass		
F9	Pass	F25	Pass	F41	Pass	F62	Pass		
F10	Pass	F26	Pass	F42	Pass	F64	Pass		
F11	Pass	F27	Pass	F43	Pass	F65	Pass		
F12	Pass	F28	Pass	F44	Pass	F66	Pass		
F13	Pass	F29	Pass	F45	Pass	F67	Pass		
F14	Pass	F30	Pass	F53	Pass	F68	Pass		
F15	Pass	F31	Pass	F54	Pass	F69	Pass		

1. Certification is only for the Trusses set out above.
2. Certification is only for buildings within the following dimensions:
 - a. distance from ground to underside of eaves equal to or less than 6 m.
 - b. distance from ground to highest point of roof structure less than or equal to 8.5 m.
 - c. building width (including roofed verandas but excluding eaves) less than or equal to 16 m.
 - d. The building length must not exceed five times greater than the building width.
 - e. The roof pitch must not exceed 35°.
3. The correct dimensions of the building based on the building plans must be used in the engineering system.
4. The correct inputs including loads on the trusses must be used in the engineering system.
5. The correct number of plies must be used in engineering system.
6. If the building is outside a cyclone prone area, the building is assumed to be enclosed. If the building is within a cyclone prone area, the building is assumed to be partially enclosed.
7. Tie downs, tie down brackets, roof battens, roof rafters, ceiling battens, bracings and their connections are not considered in this certification.
8. Fire actions, earthquake action or any accidental loads are not considered in this certification.
9. The designer's and certifier's names and certificate numbers must be correctly stated below.

Software and certifier details

SOFTWARE CHECKLIST				
Self-Certification (AU Trusses) version number		1.0		
Software version number		25.10.3012.3900		
Have input sources been checked?		Yes		
Do the inputs to the software match the design documentation?		Yes		
Have critical components been checked?		Yes		
Has documentaion of any additional checks deemed to be warrented been included?		Yes		
Certifier Name		AAA		
Certifier Number		12345		
List any major assumptions and provide comments on them (e.g. Internal walls as supports, special hold down requirements, top chord restraints, overhang support, special loads, etc.				
	Project Name	Model 1	Project No.	123
	Address	Loganholme		
	Company	SCS		
	Detailer	TR	Certificate No.	1222
	Reference	Model 1.sdp		

Certification conditions