



Public User Edition

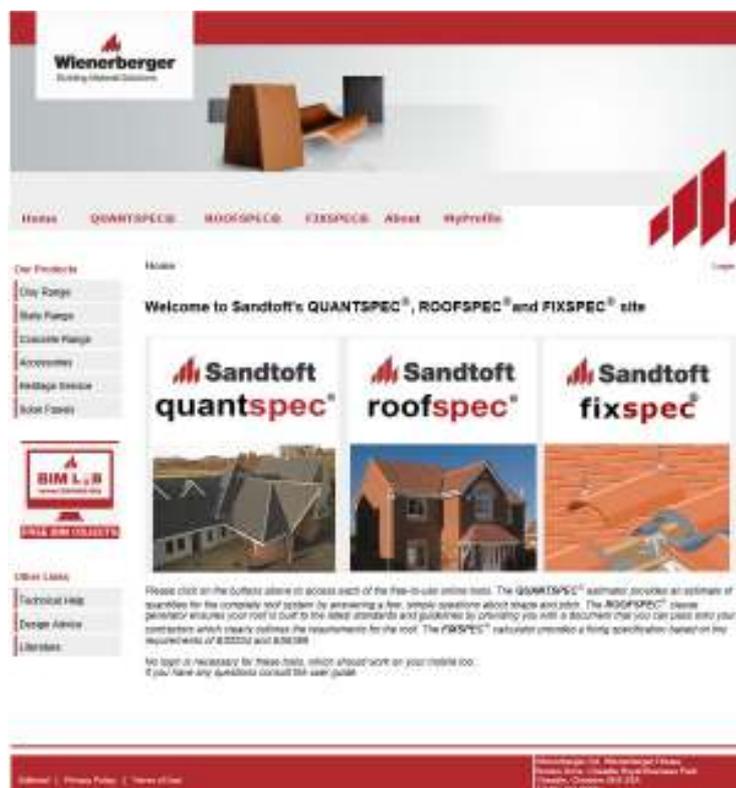
Version 2.01, July 2017

Contents

Introduction	5
A general guide to using the site	6
Site Access & Navigation	6
Who can use the site?	6
Navigation	7
QUANTSPEC®	7
Estimates of Quantities	7
ROOFSPEC®	11
Specification Clauses.....	11
FIXSPEC®	13
Fixing Specification	13
Printing to a printer or a PDF file	16
Privacy and the Storage of Information	16
General	16
Site Specific Privacy	16

Introduction

This User Guide is designed to help guide you through the Sandtoft **ROOFSPEC**[®], **QUANTSPEC**[®] and **FIXSPEC**[®] websites – www.roofspec.co.uk



The site comprises three separate but related tools designed to help users and specifiers of Sandtoft roofing products. A brief introduction to each is given below. In the following chapters further background, and the limitations on use, are given along with a step-by-step instructions and screen images.

Sandtoft **QUANTSPEC**[®] enables the user to enter details of the roof, its dimensions and the chosen tile type to generate an estimate of quantities for the main tiles and principal fittings required for that roof. For registered merchant users Quantspec also includes pricing information and estimated total cost for the products selected.

Sandtoft **ROOFSPEC**[®] complements the existing service provided by the Sandtoft Technical team by enabling the user to create a set of specification clauses tailored to the chosen roof type and the features of that roof. Nominated registered users are also able to generate a **ROOFSPEC**[®] Guarantee, which warrants that the roof design covered by the **ROOFSPEC**[®] specification, provided that the roof is constructed in full accordance with the specification and with current British or European standards. A full set of Terms & Conditions is available on the web site.

Sandtoft **FIXSPEC**[®] adds a further service which calculates the wind forces acting on a roof using the methods of BS5534:2014 and BS6399-2 to provide a bespoke fixing specification for a Sandtoft roof. It does so by using the location of the site (the postcode) to determine the design wind speed and then calculates the wind force and fixing resistance using the formulae of BS5534.

A general guide to using the site

The site is designed to cover most situations but for complex roofs or severely exposed sites it is recommended that you seek the advice of Sandtoft's Technical Department.

As you move between the sections of the site, your user information and project details are remembered where possible as a convenience to you [see Privacy section]. Also, as far as possible, the site automatically checks that the input data make sense and are in the correct format; for example, checking that the recommended pitch & headlap combinations are not violated. However, these automatic checks cannot detect every error. For instance, if the building plan dimensions entered do not physically make sense, the site may not be able to pick that up. Therefore, it is always your responsibility to ensure that you have entered the correct information and asked for the correct clauses, estimates or fixings.

If you are a registered user with a login, your user details can be stored in the "My Profile" area and are automatically applied to the relevant step in each section of the site. Non-registered users must type their information in the first time they encounter the user details step. In either case, if you manually edit that information during a session, the edited data will be remembered until you either leave the site or click the <Reset> button in any step.

A Merchant category user also has access to pricing information and so can produce costed estimates in Quantspec. They may also define three default discount levels, that can be edited during the run, for Main Tiles, Fittings and Accessories.

Site Access & Navigation

Who can use the site?

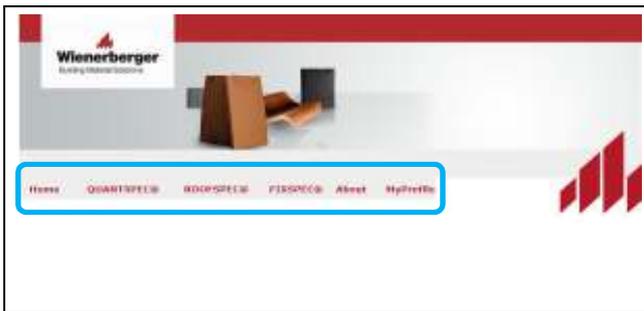
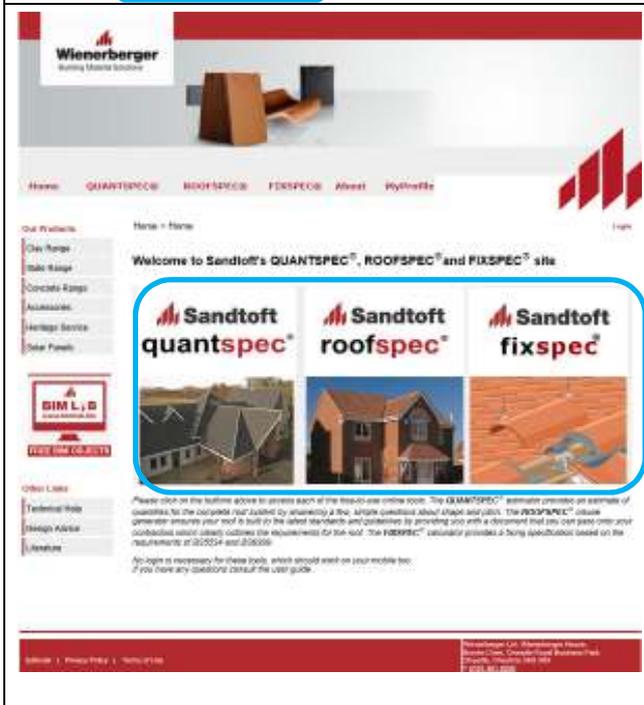
The site can be used by anyone to generate specification clauses, estimates of quantities and fixing specifications. For general users no login is required but some advanced functionality is not available.

Some users, where authorised by Sandtoft, are able to login to the site to generate a 10-year or 15-year **ROOFSPEC®** Guarantee for any specification clauses that they produce. These registered users can also store their name and address information in a "Profile" that is then used to automatically populate the User Information fields on the site.

A further category of authorised user ("Merchant") are also able to generate price estimates within **QUANTSPEC®**. For other users, the price columns are left blank to facilitate you entering your own information after consulting a current Wienerberger Price List or in conjunction with a merchant.

If you are not logged in to the site and try to access a part of the site that requires you to be logged in you will be redirected to a login page. If you have an authorised login name and password you can enter it there and continue. If you do not have a user name and password click the link shown, or the back button, to continue from where you were.

Navigation

	<p>The principal means of navigation is via the menu bar in the header. The main menu titles shown can all be clicked directly and lead to a specific page. If there are sub-menu items then they will appear as the cursor hovers over the main menu item and you can then move the cursor down to select those items.</p>
	<p>A site map path is also shown on most pages. This shows which page you are on and the “parent” pages above that page. You can click on the links to the left of the current page as a quick way to go back.</p>
	<p>Finally, the three large panels on the home page can be used as shortcuts to the ROOFSPEC®, QUANTSPEC® and User Guide pages.</p>

QUANTSPEC®

Estimates of Quantities

QUANTSPEC® will generate a bespoke estimate of quantities for you to use with your design for a roofing contractor or builder. Authorised “Merchant” users can also generate price estimates. Completing the information required is straightforward and is collected by a step-by-step process. Each step is described below.

Notes: *Quantities are estimated using the default headlap specified in Sandtoft literature for the selected roof pitch. For BritSlate, it is also based on an assumption of moderate exposure to driving rain.*

A selection of 19 standard roof types/shapes is provided for you to generate an estimate of quantities. The 20th option is a "user-defined" option where you may enter roof dimensions manually. If your roof does not conform to the stated assumptions in any way, please seek assistance from the Sandtoft Technical Team on 0844 9395 999 and they will be pleased to assist.

This schedule of materials and, where relevant, prices is based on the information you have entered. If you have scaled dimensions from architectural drawings this schedule should only be used as a guide due to inaccuracies inherent in scaling and final quantities should be determined on site before ordering.

Sandtoft will not be responsible for any claims, liability, damages or costs in relation to any errors in the schedule arising as a direct or indirect result of inaccurate information provided by you. Surplus tiles and fittings cannot be accepted back at works.

In order to comply with British Standards, a detailed site-specific fixing specification calculation should be carried out. Wienerberger Sandtoft will be pleased to supply a fixing specification on receipt of additional relevant information as set out in our Fixing Spec request form (available on our main website or from Sandtoft Technical Support).

Please note that it is your responsibility to ensure that the required tiles or slates, fittings and accessories are appropriate for the particular roof and its location.

This schedule of materials and, where relevant, prices is calculated in accordance with the technical data detailed on our website and in our literature, copies of which are available on request from Sandtoft Technical Support.

		<p>Step 1 of 5 Enter your own details. Some of these are required fields – shown by an asterisk (*) next to the field title.</p> <p>Click <Next> to proceed to Step 2.</p>
--	--	--

Step 2 of 5

Enter details of the project. All fields in the Tile Details section are required to be completed. The headlap field cannot be edited and may change when you enter the headlap.

The 10/15 year Guarantee option only appears for users registered and approved by Sandtoft.

The Bonnet/Arriis option only appears if relevant to the selected tile. Note that Arriis Hip Tiles are only available for certain specified roof pitch angles.

If you wish to go back to a previous step, click the <Previous> button. The data that you already entered will still be there.

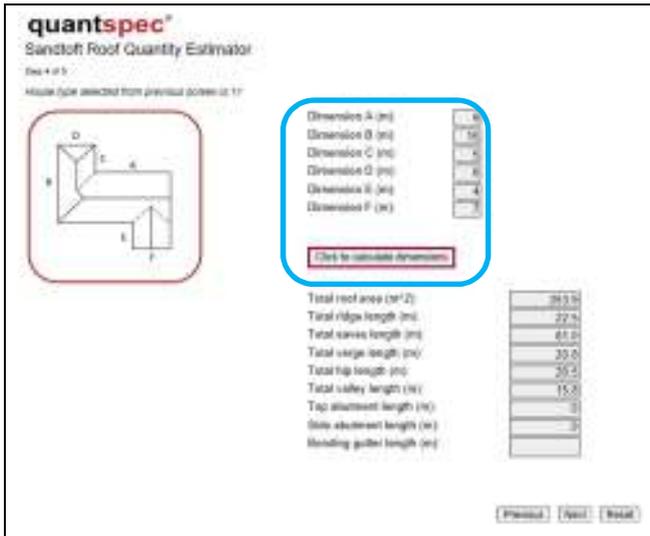
The <Reset> button deletes all data previously entered and returns you to Step 1.

Step 3 of 5

Select the roof shape that applies to your project by clicking the image. The selected shape will have an orange border around it.

Click <Next> to proceed to Step 4

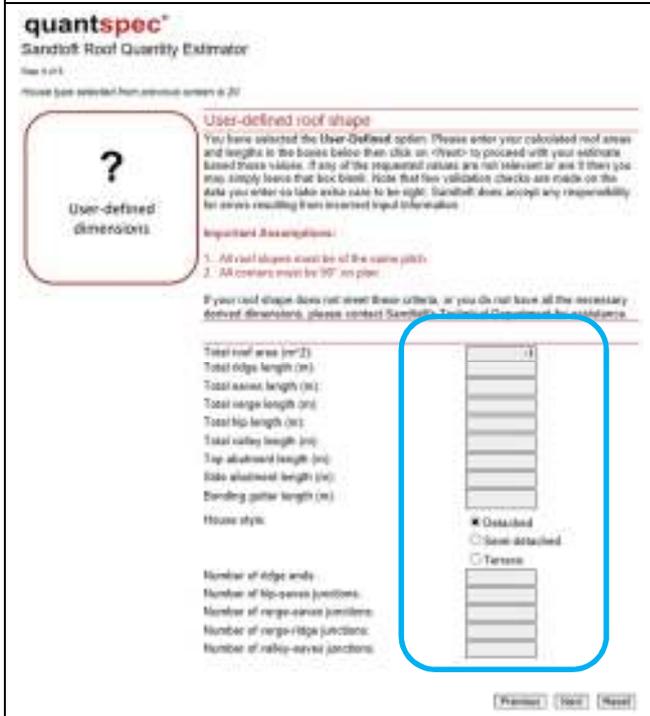
The "User defined" options allows manual entry of roof dimensions for non-standard shapes.



Step 4 of 5 (**standard roof shapes**)
Enter the plan dimensions (in metres) of the roof in the boxes provided. The correct number of boxes appears for the chosen shape so all must be completed. The sketch indicates the dimensions referred to beside the text boxes.

Click the button to calculate the dimensions before proceeding.

Then click <Next>



Step 4 of 5 (**user-defined shape**)
Enter the various roof dimensions requested (in metres) in the boxes provided. Where the dimension is not relevant to your roof it can be left blank or set to zero.

Then click <Next>

NB No check is made that the dimensions entered make physical sense or are complete. The estimate will be based entirely on what you enter.

quantspec®
Sandtoft Roof Quantity Estimator

1800/2817 664242
1800111434399

Wienerberger
Building Material Solutions

Sandtoft

Project & User Details

Date: 18/07/2017 08:42:42
Unique Reference: 1800111434399

Company Name: Hambro Ltd
E-mail: paul.frost@hambro.co.uk
Phone: 01434 863786

Project Name/Reference: JY500
Project Description: New house in new development
Project Location: Address 1, Hamel, Harpenden
Project Postcode: HP7 6DZ

Summary of Estimated Quantities

Roof type = T1
Roof pitch = 30°

Dimension A = 8m
Dimension B = 7.5m
Dimension C = 6m
Dimension D = 8m
Dimension E = 4m
Dimension F = 7m

MAIN TILES

Item	Description	Unit price	Qty	Total price	
Main Tiles	Alban Slate Tile @ 65mm headlap Colour: Sussex Blend Product Code: 2453330175	253.5 m ²	6.851	14940	12,721.80
Required for cuts at hips & valleys					
Sub-total (before discount)					£12,721.80

Eaves Ventilation

Eaves Ventilation	Eaves Ventilation Pack - 18mm Product Code: 2462676047	sqm	48.975	71	512.37
Vapour Permeable Membrane	Sandtoft VPM Super Product Code: 6100618	75m ²	138.680	4	595.94
Eave Clips	None				
Eaves Clips	None				
Verge Clips	None				
Tile Nails	Aluminium long shank 30 x 3.5mm Product Code: 6000121	per kg	1.836	30	250.95
Clip Nails	0				
Battens	1 x 40mm radius camera 30 x 25mm	pieces		2540	
Sub-total (before discount)					£2,377.24
Discount applied	10.00%				£237.72
Sub-total (after discount)					£2,139.52

Total before discounts (ex VAT): £18,195.45
Total overheads (ex VAT): £1,180.12
Total after discounts (ex VAT): £17,015.31
VAT @ 20%: £3,403.06
GRAND TOTAL (including VAT): £20,418.37

Buttons: Print, Finish, Back

Step 5 of 5 (top)

Based on the data you have entered an estimate of quantities is produced. Note that every estimate produced has a unique reference number as well as the date and time it was produced.

Registered Merchant users will also see unit and total prices. Other users have those boxes left blank for manual completion, if desired.

To print the Estimate or to create a PDF version for saving, click the <Create Printer Friendly PDF> button. This will download a PDF that can be both saved and printed. This PDF does not include the header, footer and side panel graphics that are displayed in the web browser.

Step 5 of 5 (bottom)

Click the <Finish> button to return to Step 1 with some roof details remembered. Click <Reset> to clear all parameters before returning to Step 1.

If you instead use one of the menu links to go to another element of the site (eg **ROOFSPEC®**) then some roof details are remembered for your convenience.

Remember to print/save your estimate before you click <Finish> if you want to keep it.

ROOFSPEC®

Specification Clauses

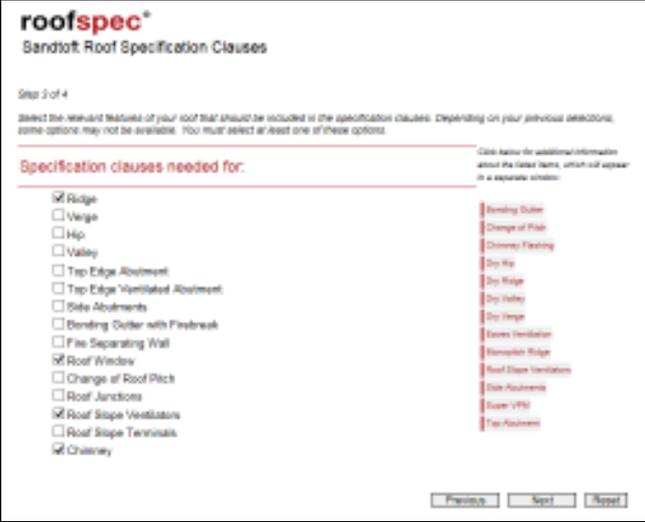
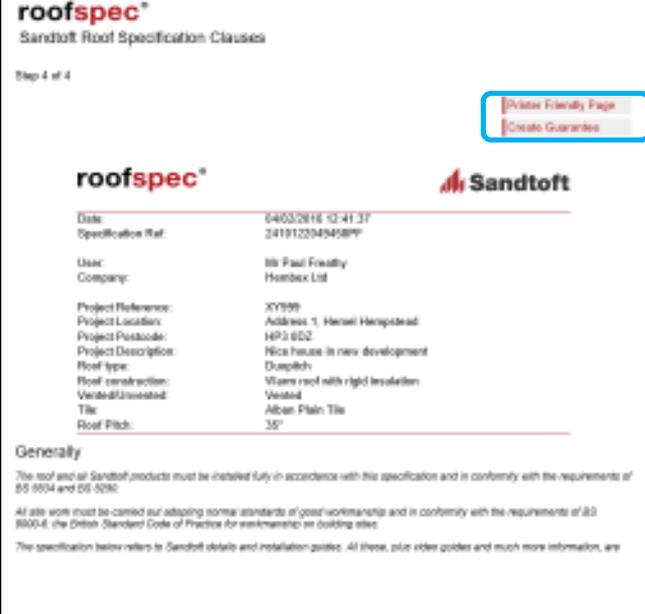
ROOFSPEC® will generate bespoke specification clauses for you to use with your design for a roofing contractor or builder. Completing the information required is straightforward and is collected by a step-by-step process. Each step is described below.

Notes: The site will produce clauses that are relevant to your choices. For example, if a low roof pitch is specified the appropriate clauses for low pitch are used rather than the standard clauses.

The user is responsible for ensuring that the chosen combination of pitch, tile type and accessories is appropriate for the building design and specified location. It will produce the specification clauses for the choices you make.

Please refer to Sandtoft literature for all technical data, including recommendations on minimum roof pitches and maximum rafter length.

	<p>Step 1 of 4 Enter your own details. Some of these are required fields – shown by an asterisk (*) next to the field title. Click <Next> to proceed to Step 2.</p>
	<p>Step 2 of 4 Enter details of the project, including the required field of approximate roof area. All fields in the Tile Details section are required to be completed. The 10/15 year Guarantee option only appears for users registered and approved by Sandtoft. The Vented/Unvented selection only appears if "Warm roof with rigid insulation" is selected as the roof construction type. Click <Next> to proceed, <Previous> to go back, or <Reset> to delete all data previously entered and return to Step 1.</p>

	<p>Step 3 of 4 Select any combination of roof details and/or accessories for which you want the specification clauses. The only requirement is that at least one of these boxes is ticked.</p> <p>The links to the right open a new tab with additional useful information about these roof features. That tab can be closed to return to this step.</p>
	<p>Step 4 of 4 Specification clauses relevant to your project are produced on screen. Note that every specification produced has a unique reference number as well as the date and time it was produced.</p> <p>To print or save a PDF copy of the Estimate, click the <Printer Friendly Page> button. This will load a new tab without all of the header and sidebar graphics.</p> <p>The <Create Guarantee> button only appears to users registered and approved by Sandtoft.</p> <p><u>Remember to print this page</u> before exiting.</p>

FIXSPEC®

Fixing Specification

FIXSPEC® will generate a recommended fixing specification for the chosen site, building size and tile details entered by the user. The specification is based on the design wind speeds specified in BS EN 1991-1-4 and formulae in the slating & tiling code bespoke BS5534:2014.

Notes: *The location of the site is determined by entering the postcode, which is a required field. From the postcode the grid reference is obtained from an open source database provided by the Met Office. If the site does not yet have a postcode, find one for an adjacent building and use that.*

The location is used to calculate a design wind speed. The calculation of wind speed uses the methods of the BREVe3® software, which is in common use for this purpose.

The basic, overall plan dimensions of the building are required as is the ridge height, tile type and pitch. Other questions are asked to ensure that the method of FIXSPEC is appropriate. For complex roof shapes this simple specifier is not appropriate and you should contact Sandtoft's Technical department for further guidance.

It is the user's responsibility to ensure that all information is correct and appropriate for the site and building in question. All details that might affect the wind speed at the site must be considered and entered where necessary. If in any doubt, the user should contact Sandtoft Technical Department for guidance.

The resulting specification is only valid for the location, building and product details shown in the recommended fixing specification.

	<p>Step 1 of 4</p> <p>Enter your user details. Some of these are required fields, indicated by '*'. Click <Next> to continue</p>
	<p>Step 2 of 4</p> <p>Enter the project details. Note that the postcode must entered and must be valid. It can be typed without care for the formatting as the program will re-format as necessary. Click <Next> to continue</p>

fixspec®
Sandtoft Roof Tile Fixing Specification

Step 3 of 4

Enter the details of your building and tile selection below. Please refer to Sandtoft literature for all technical data, including recommendations on minimum roof pitches and maximum rafter lengths. All fields require user input or confirmation. Click on the Help icons to get more information about specific items, click again to hide the help text.

Building & Tile Details

Tile name: Alban Plain Tile

Rafter pitch (%): 10

Pitch type: Doppelstich Monopitch

Substrate: Underlay, or sheet sarking No underlay, or sarking boards

Counterbatens? Yes No
Counterbatens depth in mm: []

Ceiling construction: Ceiling not well sealed

Building edge height (m): [] the highest point of the roof

Building Length (m): 18 the longest plan dimension

Building Width (m): 8 the shortest plan dimension

Select the roof features that your roof has:

Ridge
 Verge
 Hip
 Valley

Is the site within 50m of an airport? Yes No

Does the tile overhang at eaves the same or verge extend beyond? Yes No

Are there adjacent tall buildings that could affect the wind speed impacting on your site? Yes No

[Previous] [Next] [Finish]

Step 3 of 4

Select the tile and then complete the rest of the form.

Select as many or as few of the roof features as apply to your building.

Answer all yes/no questions at the bottom to ensure the validity of the result.

Clicking on a '?' symbol will display some explanatory text. Clicking again hides it.

Click <Next> to produce the fixing specification.

fixspec®
Sandtoft Roof Tile Fixing Specification

[Printer Friendly Page]

SITE DETAILS:

Reference: 22881818581899P
Date: 04/02/2016 12:52:04
User: Mr Paul Fixatly
Company: Hembes Ltd
Project: 31999
Description: Nice house in new development

Location: Address 1, Homel Hempstead
Postcode: HP3 9QZ

WIND PARAMETERS:

Altitude (max within 500m) (m): 158.0
Terrain: Site is mostly in Country terrain
Max wind speed (BS5410:1-1-4) (m/s): 21.5
Design gust wind pressure (kN/m²): 1622.7

ROOF PARAMETERS:

Tile name: Alban Plain Tile
Roof pitch (%)/type/substrate: Monopitch, 10%, Underlay, or sheet sarking
Ridge height (m): 10.80
Batten type: Class 1 timber (C16/18/22)
Counterbatens, depth (mm): No
Ceiling type: Unsealed
Headlap (mm): 60mm
Building length, width (m): Length=18.0m , width=8.0m

Step 4 of 4 (top)

The details of the user, the site and the building are reproduced. Also, the wind speed calculation parameters.

Note that every estimate produced has a unique reference number as well as the date and time it was produced.

To print the spec or to save it as a PDF, click the <Printer Friendly Page> button. This will load a new tab without all of the header and sidebar graphics.

FIXING SPECIFICATION:

Tile name: Alban Plain Tile
Roof pitch (%): 10
Pitch type: Doppelstich
Substrate: Underlay, or sheet sarking
Counterbatens: No
Ceiling type: Unsealed
Headlap: 60mm
Building length, width: Length=18.0m, width=8.0m

Technical Requirements:

1. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

2. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

3. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

4. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

5. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

6. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

7. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

8. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

9. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

10. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

11. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

12. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

13. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

14. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

15. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

16. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

17. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

18. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

19. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

20. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

21. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

22. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

23. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

24. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

25. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

26. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

27. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

28. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

29. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

30. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

31. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

32. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

33. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

34. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

35. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

36. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

37. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

38. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

39. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

40. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

41. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

42. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

43. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

44. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

45. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

46. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

47. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

48. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

49. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

50. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

51. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

52. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

53. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

54. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

55. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

56. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

57. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

58. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

59. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

60. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

61. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

62. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

63. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

64. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

65. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

66. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

67. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

68. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

69. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

70. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

71. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

72. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

73. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

74. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

75. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

76. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

77. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

78. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

79. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

80. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

81. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

82. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

83. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

84. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

85. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

86. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

87. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

88. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

89. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

90. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

91. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

92. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

93. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

94. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

95. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

96. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

97. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

98. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

99. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

100. The tiles shall be fixed to the roof structure in accordance with the manufacturer's instructions.

Step 4 of 4 (continued)

At the foot of the report is the recommended fixing specification.

Click <Finish> to return to Step 1, remembering to print it first if you want to retain a copy (see above).

Printing to a printer or a PDF file



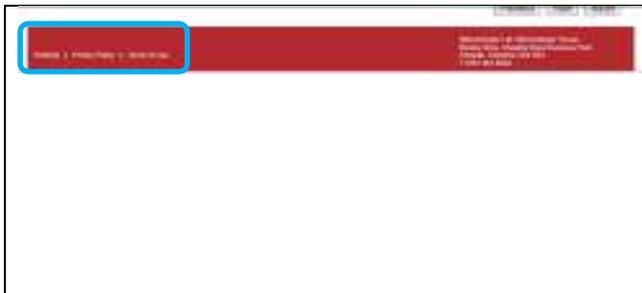
The screenshot shows the 'quantspec' software interface. At the top right, a button labeled 'Create Printer Friendly PDF' is highlighted with a red rectangular box. Below this, there are sections for 'Project & User Details' and 'Summary of Estimated Quantities'. The 'Project & User Details' section includes fields for Date, Unique Reference, Company, Name, Email, Phone, Project Name/Reference, Project Description, Project Location, and Project Materials. The 'Summary of Estimated Quantities' section includes a diagram of a roof structure and a list of dimensions (A through G) with their respective values.

To either print the specification (without the header, footer and side panel graphics) or save an electronic copy, first click the <Create Printer Friendly PDF> button on any of the three finishing steps of Roofspect, Quantspec or Fixspec. Depending on your browser, a PDF version will be created and should be available for download – these options generally appear at the bottom of the browser window.

In Edge, for example, you are prompted to save the PDF and once this is done it is available to open and print.

Privacy and the Storage of Information

General



The screenshot shows the footer of the website. A red horizontal bar contains a link labeled 'Privacy & Cookies Policy' which is highlighted with a red rectangular box. To the right of this bar, there is a small text block containing the website's contact information and a disclaimer.

This site conforms to Wienerberger’s general policies concerning editorial, privacy and terms of use. Links to information on these policies are provided at the foot of every main page on the site.

Site specific policies are described below.

Site Specific Privacy

This site does use cookies and session variables to store certain information during your use of the site and make it available to later stages of the specification. This information is not directly available to Sandtoft or Wienerberger personnel but will appear on specifications, guarantees and estimates produced, which they do have access to.

If you are a registered user with a login you have the convenience of being able to store your contact information so that you do not need to type it in every time you use the site. That information is used only for that purpose.

When you complete a specification or estimate using www.roofspec.co.uk a copy of the information it contains will be automatically stored in an archive and it will be identifiable

via the unique reference that is assigned to all specifications/estimates. This archive will be accessible to Sandtoft and Wienerberger personnel only and may be used either in the event of any dispute or claim that the specification was in error. It may also be used by Sandtoft personnel for the purposes of marketing follow-up. Sandtoft may also receive an e-mail with brief details, which serves as a secondary back-up of the information provided.

In the event that you have any question or dispute about any specification or estimate you must contact Sandtoft's Technical team on 0844 9395 999 and must quote the unique reference code.