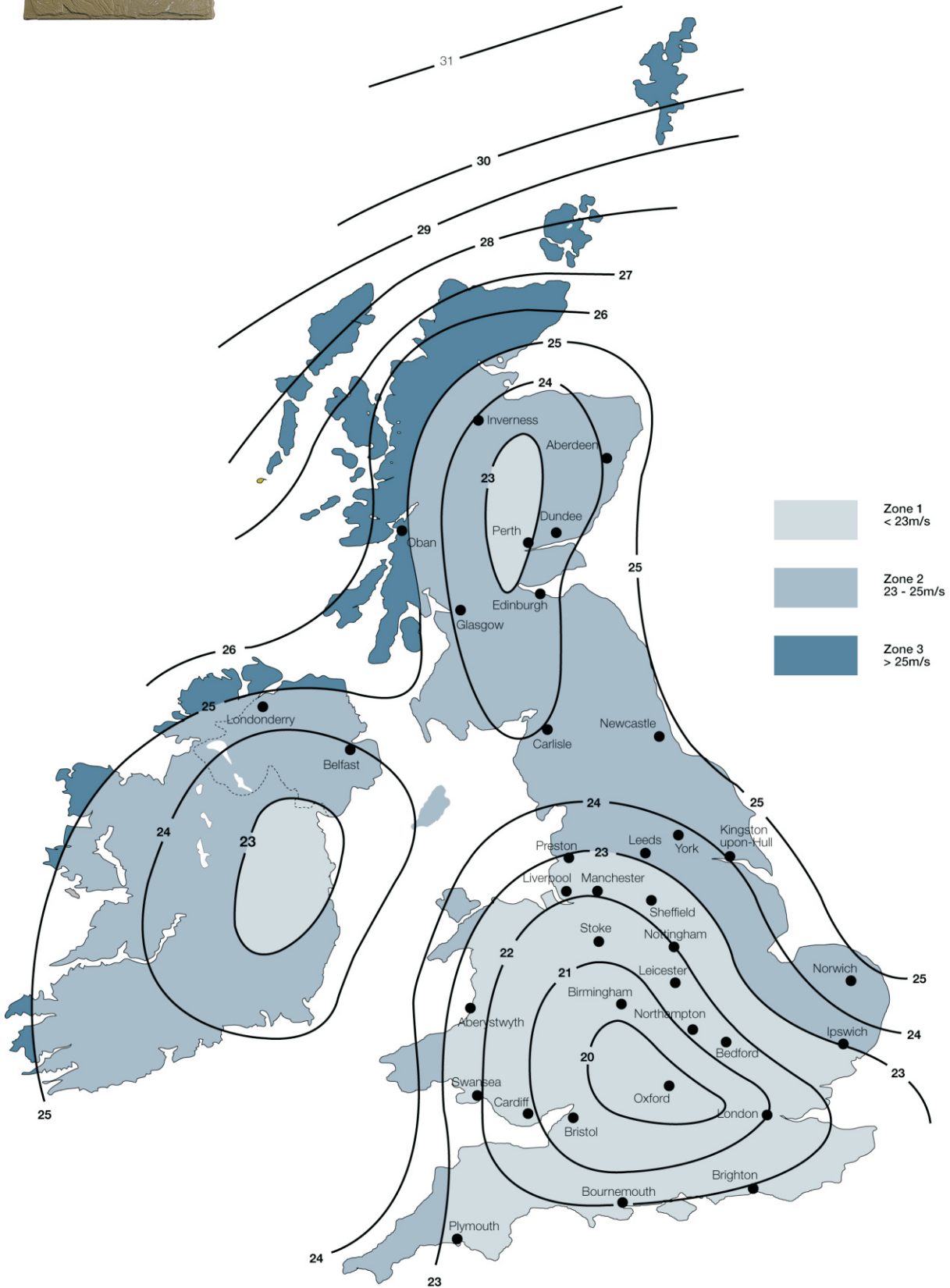




Sandtoft

BritSlate Duchess
Fixing specification tables



BritSlate Duchess fixing specification

BritSlate Duchess roof *without* counterbattens

Site altitude 0 to 100 m

Headlap	75mm			110mm			
	Pitch	<35°	35°-44°	45°-54°	<35°	35°-44°	45°-54°
Zone 1	5m	F	C*	F	F	C*	F
	10m	F	F	F	F	F	F
	15m	F	F	F	F	F	F
Zone 2	5m	F	F	F	F	F	F
	10m	F	F	F	F	F	F
	15m	F	F	F	F	F	F
Zone 3	Calculation to BS 6399 and BS 5534 is required						

Site altitude 101 to 200 m

Headlap	75mm			110mm			
	Pitch	<35°	35°-44°	45°-54°	<35°	35°-44°	45°-54°
Zone 1	5m	F	F	F	F	F	F
	10m	F	F	F	F	F	F
	15m	F	F	F	F	F	F
Zone 2	5m	F	F	F	F	F	F
	10m	F	F	F	F	F	F
	15m	F	F	F	F	F	F
Zone 3	Calculation to BS 6399 and BS 5534 is required						

Site altitude 201 to 300 m

Headlap	75mm			110mm			
	Pitch	<35°	35°-44°	45°-54°	<35°	35°-44°	45°-54°
Zone 1	5m	F	F	F	F	F	F
	10m	F	F	F	F	F	F
	15m	F	F	F	F	F	F
Zone 2	5m	F	F	F	F	F	F
	10m	F	F	F	F	F	F
	15m	F	F	F	F	F	F
Zone 3	Calculation to BS 6399 and BS 5534 is required						

Site altitude > 300 m

Calculation to BS 6399 and BS 5534 is required

BritSlate Duchess roof *with* counterbattens

Site altitude 0 to 100 m

Headlap	75mm			110mm			
	Pitch	<35°	35°-44°	45°-54°	<35°	35°-44°	45°-54°
Zone 1	5m	F	F	F	F	F	F
	10m	F	F	F	F	F	F
	15m	F	F	F	F	F	F
Zone 2	5m	F	F	F	F	F	F
	10m	F	F	F	F	F	F
	15m	F	F	F	F	F	F
Zone 3	Calculation to BS 6399 and BS 5534 is required						

Site altitude 101 to 200 m

Headlap	75mm			110mm			
	Pitch	<35°	35°-44°	45°-54°	<35°	35°-44°	45°-54°
Zone 1	5m	F	F	F	F	F	F
	10m	F	F	F	F	F	F
	15m	F	F	F	F	F	F
Zone 2	5m	F	F	F	F	F	F
	10m	F	F	F	F	F	F
	15m	F	F	F	F	F	F
Zone 3	Calculation to BS 6399 and BS 5534 is required						

Site altitude 201 to 300 m

Headlap	75mm			110mm			
	Pitch	<35°	35°-44°	45°-54°	<35°	35°-44°	45°-54°
Zone 1	5m	F	F	F	F	F	F
	10m	F	F	F	F	F	F
	15m	F	F	F	F	F	F
Zone 2	5m	F	F	F	F	F	F
	10m	F	F	F	F	F	F
	15m	F	F	F	F	F	F
Zone 3	Calculation to BS 6399 and BS 5534 is required						

Site altitude > 300 m

Calculation to BS 6399 and BS 5534 is required

Key to fixing specifications

- C Each slate twice nailed
- D Each slate hooked
- F Each slate twice nailed and also hooked
- * Use improved (ie ring shank) nails

Important additional fixing information

- All tops slates must be twice head nailed and also tail hooked
- All verge slates must be twice nailed and also clipped
- All abutment slates must be twice nailed and also clipped
- All valley slates must be twice nailed and also clipped
- All mitred hip slates must be twice nailed and also tail screw fixed

BritSlate Duchess fixing specification

How to use these tables

1. Check if the roof has counterbattens above the underlay – tables are included for projects with and without counterbattens – use the appropriate table
2. Identify the altitude category of the site; ie less than 100m, 101 to 200m, or 201 to 300m above sea level. Refer to an ordinance survey map or visit www.streetmap.co.uk
3. Refer to the wind speed zone map on the front page to identify the correct zone; ie zone 1, 2 or 3. If the site lies on the junction of two wind speed zones use the higher wind speed zone. For the Channel Islands assume Zone 2
4. Identify the building height to ridge (5m, 10m or 15m)
5. Identify the headlap of the slates (75 or 110mm). Where the headlap falls between 75mm and 110mm use the 75mm fixing specification
6. Identify the roof pitch category (less than 35°, 35° to 44° or 45° to 54°)
7. Read off the fixing specification code from the table. Refer to the key below the tables for a description of the fixings

Exclusions

These fixing specification tables are not applicable in the following circumstances:

- For buildings where the site altitude is greater than 300m.
- For buildings on sites where the maximum gradient of the land within 200 m of the building is greater than 10%.
- Where the building is within 6 kilometres of an airport and is plus or minus 10 degrees each side of the runway centre line measured from the touchdown point.
- Where the ridge height of the building is greater than 15 m.
- Where the roof pitch is greater than 54°
- Where the roof substructure does not have an underlay or sub-roof system such as liner trays or sandwich panels.
- Heritage, listed or historic buildings requiring restoration using traditional skills.
- For buildings on sites located in wind zones where the wind speed is greater than 25 m/s i.e. Zone 3.
- For buildings with mono pitched roofs.

Please contact Sandtoft Technical Support for calculated fixing specifications for any excluded site or building



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