

STORAGE AND HANDLING

On receipt of delivery slates should be carefully stacked on their longer edges with a batten or timber board between layers. Ensure the lowest layer is placed on a secure and firm level base. If the slates remain in the pallet then we recommend covering with a tarpaulin.

LEAD STAINING PREVENTION

Lead will develop a lead carbonate patina which, if washed over slates by rain or moisture can result in an unsightly staining. To prevent this reaction it is advisable to treat all of the lead including flashings and soakers with patination oil before any rain occurs. Ensure that you follow the manufacturer's instructions.

BATTENS

The minimum batten size acceptable in accordance with the recommendations in BS:5534: 2003 for rafter spacing up to 600mm is 50cmx25cm.

NAILS

Clout nails should be Copper to BS 1202:part 2 or aluminium to BS 1202:part3 or silicon bronze. In more corrosive or marine atmospheres copper nails are preferable.

GRADING AND SORTING

All slates regardless of quality should be sorted into three thicknesses, thicks, mediums and thins prior to going onto the roof.

GUARANTEE

We are happy to guarantee our ESCO9 for a period of 75 years once fitted in accordance with BS5534 & BS8000.

BS 5534 - The British standard for slating and tiling.

This guide provides the industry with guidance on best practice relating to installation of a roof, providing information on everything from the basics such as batten selection and methods of fixing through to more detailed technical information such as wind uplift calculations.

BS 8000 - Workmanship on building sites - Code of practice for slating and tiling of roofs and cladding

This standard gives information and recommendations on basic levels of workmanship in relation to the cladding of roofs and walls with slates and tiles.

FIXING NATURAL SLATE

Please visit our website - www.europeanslate.co.uk (for recommended fixing instructions)

[European Slate Company](http://www.europeanslate.co.uk)

All information in this publication is based on our experience and knowledge of the product. However due to factors beyond our control no warranty is given or implied based on this information.

As with all natural materials, textures and colours may vary according to light or weather conditions where it is fixed.

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ESCO402 - NATURAL SPANISH SLATE



Croudace Developments site - Nightingale Court in Romsey, Hampshire

The Esco 402 quarry is situated near the village of La Bana in the mountains of the province of Leon in Spain. In these mountains where cows and horses roam freely, slate first started being extracted over 40 years ago by a local family. The family business has grown and is now one of the biggest and most reliable quarries in the area and 40 years later the quarry now produces roofing slate with the latest technology and an environmental ethos second to none.

Production is approximately 2500 tonnes per month and the slate is blue/black in colour with a distinctive texture. It is well known and has outstanding quality coupled with exceptional performance.

Since its inception the slate has proved to be rust free providing peace of mind to Architects, roofers and the end customer. This slate provides a uniquely elegant riven finish to the roof which gives great character. This slate is regularly tested and has always conformed to the highest European Standards. The European Slate company are happy to guarantee this product for 75 years.

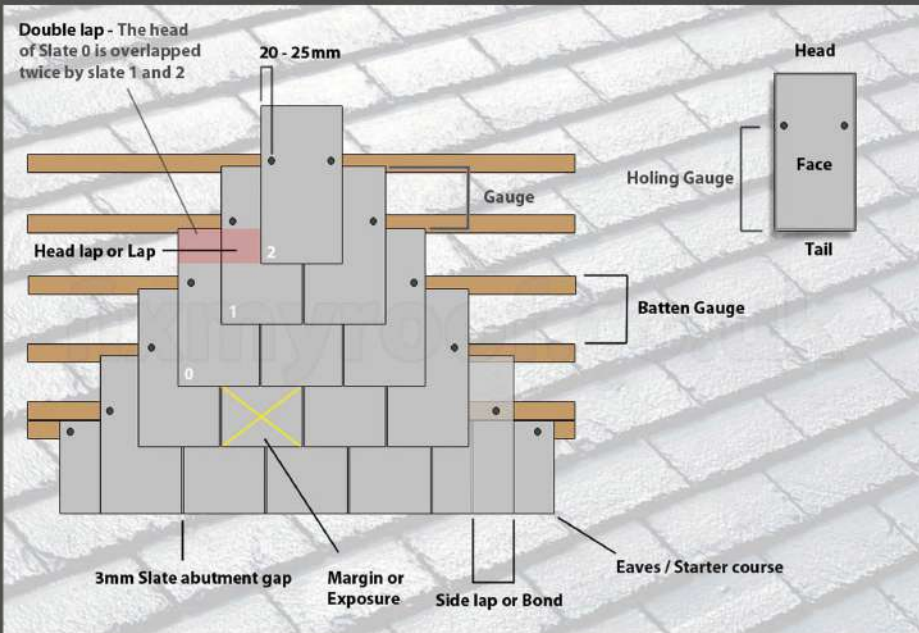
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Moderate Exposure
(Less than 56.51/m² per spell)

The recommendations below apply to rafter lengths of 9m or less. The specifier should also take into account any abnormal local conditions that might apply.

Pitch deg	Slate size mm x mm	Minimum Headlap mm	Slates no/m ²	Batten gauge mm	Holing gauge mm	Average weight kg/m ²
45	600 x 300	54	12.21	273	337	33.24
	500 x 300	54	14.95	223	287	33.91
	500 x 250	54	17.94	223	287	33.91
	450 x 250	54	20.20	198	262	34.38
	450 x 220	54	22.96	198	262	34.38
	400 x 200	54	23.12	173	237	34.97
40	600 x 300	60	12.35	270	340	33.61
	500 x 300	60	15.15	220	290	34.38
	500 x 250	60	18.18	220	290	34.38
	450 x 250	60	20.51	195	265	34.90
	450 x 220	60	23.31	195	265	34.90
	400 x 250	60	23.53	170	240	35.59
35	600 x 300	67	12.51	267	344	34.05
	500 x 300	67	15.40	217	294	34.93
	500 x 250	67	18.48	217	294	34.93
	450 x 250	67	20.89	192	269	35.54
	450 x 220	67	23.74	192	269	35.54
	400 x 250	67	24.02	167	244	36.34
30	600 x 300	77	12.75	262	349	34.70
	500 x 300	77	15.76	212	299	35.76
	500 x 250	77	18.91	212	299	35.76
	450 x 250	77	21.45	187	274	36.49
	450 x 220	77	24.37	187	274	36.49
	400 x 250	77	24.77	162	249	37.46
27.5	600 x 300	83	12.89	259	352	35.11
	500 x 300	83	15.99	209	302	36.27
	500 x 250	83	19.18	209	302	36.27
	450 x 250	91	13.10	255	356	35.66
	450 x 220	91	16.30	205	306	36.98
	400 x 250	91	19.56	205	306	36.98
22.5	500 x 300	101	16.71	200	311	37.91
	500 x 300	113	17.23	194	317	39.08

Severe Exposure
(Greater than or equal to 56.51/m² per spell)

The recommendations below apply to rafter lengths of 9m or less. The specifier should also take into account any abnormal local conditions that might apply.

Pitch deg	Slate size mm x mm	Minimum Headlap mm	Slates no/m ²	Batten gauge mm	Holing gauge mm	Average weight kg/m ²
45	600 x 300	69	12.55	266	345	34.18
	500 x 300	69	15.47	216	295	35.09
	500 x 250	69	18.56	216	295	35.09
	450 x 250	69	21.00	191	270	35.73
	400 x 250	69	24.17	166	245	36.56
	400 x 200	69	30.21	166	245	36.56
40	600 x 300	76	12.72	262	348	34.64
	500 x 300	76	15.72	212	298	35.67
	500 x 250	76	18.87	212	298	35.67
	450 x 250	76	21.39	187	273	36.40
	400 x 250	76	24.69	162	248	37.35
	400 x 200	76	30.86	162	248	37.35
35	600 x 300	86	12.97	257	353	35.31
	500 x 300	86	16.10	207	303	36.53
	500 x 250	86	19.32	207	303	36.53
	450 x 250	86	21.98	182	278	37.40
	400 x 250	86	25.48	157	253	38.54
	400 x 200	86	31.85	157	253	38.54
30	600 x 300	98	13.28	251	359	36.16
	500 x 300	98	16.58	201	309	37.62
	500 x 250	98	19.90	201	309	37.62
	450 x 250	98	22.73	176	284	38.67
	400 x 250	98	26.49	151	259	40.07
	400 x 200	98	33.11	151	259	40.07
27.5	500 x 300	106	16.92	197	313	38.39
25	500 x 300	116	17.36	192	318	39.39
22.5	500 x 300	128	17.92	186	324	40.66

Tables based on a nail hole positioned 25mm in from the side of the slate. It may be possible to use certain slates at a lower pitch by holing the slates nearer to the edge under factory conditions.

An allowance should be made for cutting and wastage.



ESCO402 used on a curved roof



Slate being extracted from the quarry