



BARLOSA



The natural Scottish choice!

<p>EN 12326 - 1 PIZARRA NATURAL NO CARBONATADA PARA CUBIERTAS Y FACHADAS ARDOISE NATURELLE NON CARBONATÉ DE TOITURE ET DE BARDAGE NON-CARBONATED SLATE FOR ROOFING AND CLADDING</p>		<p>BARLOSA PARAJE LOSERAS, S/N (LEÓN)</p>	<p>Dimension and Dimensional Variation: Complies Nominal Thickness and Variation: Complies Mechanical Resistance (MoR): Transversal: 80.67 Mpa Longitudinal: 46.67 Mpa It loads of break: Transversal: 614 N Longitudinal: 613 N Water Absorption: Complies A1 0.19% Carbonate Content: Complies A1 0.38% Thermal Cycling: T1 Exposure SO2: S1 Non-Carbonate Carbono Content: Complies 0.31% External fire performance: Deemed to satisfy Reaction to fire: Deemed to satisfy class A1 Release of dangerous substances: None in specified conditions of use</p>	<p>MARQUE NF ARDOISES NATURELLES AFNOR CERTIFICATION 11 RUE FRANCIS DE PRESENSE 93571 SAINT-DENIS LA PLAINE CEDEX - FRANCE ARDOISES CONFORMES AUX NORMES NF EN 12326 - 1</p> <p>CERTIFIÉ PAR L'NF</p> <p>N.º NF: 38/01</p> <table border="1"> <tr> <td>ÉPAISSEUR NOMINALE</td> <td>TYPE D'ARDOISE</td> </tr> <tr> <td></td> <td></td> </tr> </table> <p>PRINCIPALES CARACTÉRISTIQUES CERTIFIÉES</p> <table border="1"> <tr> <td>DURABILITÉ - RESISTANCE MECANIQUE</td> <td></td> </tr> <tr> <td>DIMENSIONS - IMPERMEABILITÉ</td> <td></td> </tr> <tr> <td>TENUE AU GEL</td> <td></td> </tr> <tr> <td>CONFORMES NF ABSORPTION D'EAU</td> <td>A1</td> </tr> <tr> <td>EXPOSITION SO2</td> <td>S1</td> </tr> <tr> <td>CYCLE THERMIQUE</td> <td>T1</td> </tr> </table>	ÉPAISSEUR NOMINALE	TYPE D'ARDOISE			DURABILITÉ - RESISTANCE MECANIQUE		DIMENSIONS - IMPERMEABILITÉ		TENUE AU GEL		CONFORMES NF ABSORPTION D'EAU	A1	EXPOSITION SO2	S1	CYCLE THERMIQUE	T1
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The versatility and durability of slate as a material for roofing was established nearly 1000 years ago. Slate as a building material is mentioned in the Domesday Book of 1086. Slate was quarried in Scotland from the 15th century and the industry reached its high in 1900 at 45 million slates per annum. By 1966, the last documentation from the indigenous quarries reported a return of 5 tonnes.

Spanish slate has been entering the Scottish market from the late 1800s. Due to the demise of the Scottish quarries, Spain has taken over as principal supplier and is currently the undisputed market leader in the production of natural slate; accounting for 80% of the slate sold worldwide. BARLOSA is extracted using the environmentally friendly technique of diamond wire. This virtually eliminates the necessity for destructive explosive, thus giving far more usable material.

The BARLOSA quarry is situated in Marrubio in La Cabrera, one of the best and more



prestigious areas for natural slate in Spain. It is the original site of the La Baña quarry, which is very highly regarded within the UK and was re-opened in 2008 by Pizarras Barreda Lopez e Hijos, S.L. who are supplying the market with slate under the commercial name of BARLOSA.

Natural slate is the most durable roofing material available. It is unaffected by weather, acid rain or extremes in temperature. It is unaffected by UV radiation, is non combustible, is resistant to acid or alkali attack and impermeable to water.



BARLOSA is characteristically a beautiful blue/black, pyrite free, heavy slate. It is smooth on the back, with a rough surface that is typical to indigenous, Scottish Ballachulish slate which has not been produced for over 50 years. BARLOSA will produce a roof that gives your project a beautiful and permanent finish that will remain unchanged for many years to come.

BARLOSA slate is tested to and has passed the most stringent of tests in Europe. It carries the European Standard BS EN12326 CE mark; the British Standard BS680 Part 2; the French NF 228-02/01/01; the Belgian ATG H571 and the CE-marking where it got the highest achievable results of T1 (for Durability to Thermal Cycling) , A1 (for low Water Absorption) and S1 (Durability to Sulphur Dioxide Exposure).

BARLOSA carries a 100 year quarry

backed guarantee, for additional peace of mind for roofing contractors, developers, specifiers and home owners. The product is used widely across Scotland and is available in a variety of sizes 350mm x 200mm (14 x 8), 400mm x 200mm (16 x 8), 400mm x 250mm (16 x 10), 500mm x 250mm (20 x 10).

Contracts that have been completed using BARLOSA slate in Scotland include 15 new build properties @ Phase 1, Ecclesgreig Gardens, St Cyrus, Aberdeenshire; Re-roof of Eassie Primary School, By Forfar, Angus; 2 new build properties and renovation @ Latch Road, Brechin, Angus; Flatted development @ North Deeside Road, Peterculter, Aberdeenshire; Pittodrie House Hotel, Aberdeenshire; Templeton Care Home, Racecourse Road, Ayrshire; Re-roof of Alexandra Hotel, Ballater, Braemar; 2 new build properties @ Westcliff, Kinfauns Castle, Perthshire and a new build property @ Dorward Road, Montrose, Angus and 108 new build properties @ Chapelton of Elsick, Aberdeenshire.

BARREDA LÓPEZ E HIJOS, S.L.

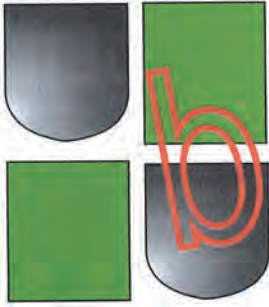
Declaration Of Performance

EC Construction Products Regulation
EN 12326 Roofing & Cladding Slate

CE

DOP Number: 07/2014	
Nominal thickness: 7 mm	
1. Unique identification code of the product type	30x20-35x30-40x20 - 40x25 - 50x25 - 40x38 - 50x37,5 - 40x30-50x30-35x30
2. Type, batch or serial number or any other element allowing identification of the construction product	Slate for discontinuous roofing & cladding
3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer	BARREDA LÓPEZ E HIJOS S.L. UGLA RIBOCEDA- LA TAYADA- 24741 MARRUBIO (LEÓN)
4. Name, registered trade name or registered trade mark and contact address of the manufacturer	N/A
5. Where applicable, name and contact address of the authorised representative	ISO 9001 / ISO 14001 / OHSAS 18001
6. System or systems of assessment and verification of constancy of performance of the construction product	EN 12326-1
7. In case of the declaration of performance concerning a construction product covered by a harmonised standard	N/A
8. In case of the declaration of performance concerning a construction product covered by a European Technical Assessment	N/A
9. Declares Performance	
Essential Characteristics for Pitched Roof Coverings	
Mechanical Resistance	Performance: Mean Failure Load: 46,67 MPa Longitudinal: 46,67 MPa Transverse: 46,67 MPa Characteristic MCR: 334 N Transverse: 334 N IC Decision 2000/559/EC IC Decision 96/603/EC as amended
External Fire Performance	Desired to satisfy Class B1 Desired to satisfy Class A1 IC Decision 96/603/EC as amended IC Decision 2000/559/EC
Dimensional Variations	Very Smooth Smooth Normal Textured
Slate Type	Very Smooth Smooth Normal Textured
Deviation from thickness and variation	N/A
Deviation from declared width	+/- 3mm
Deviation from declared length	+/- 1 %
Deviation from straightness of edge	±5mm and 0,1%
Deviation from rectangularity	±/- 1%
Durability	Code A1 Water absorption: Nil Required Freeze-thaw: Code T1 Thermal cycle test: ±20% Carbonate content: Code S1 Sulphur dioxide exposure tests: Nil Non-carbonate carbon content: None in conditions of use as roofing or external cladding
Release of dangerous substances	EN12326-2:2011
10. Declaration The products identified in Points 1 and 2 is in conformity with the declared performance under point 9. This declaration of performance is the sole responsibility of the manufacturer identified in point 4.	
Place and Date of Issue	Signed for and on behalf of the manufacturer by: Name and Position: Signature:
Member to 27 July 2014	





BARREDA LÓPEZ E HIJOS S.L.

DIRECCIÓN OFICINA:
PARAJE LOSERAS S/N
24470 (LEÓN)
ESPAÑA
TELF.: 987 526 538 · FAX: 987 526 539

DIRECCIÓN CANTERA:
LG. LA RIÑOCEDA - LA TAYADA
24744 MARRUBIO (LEÓN)
ESPAÑA

BARLOSA SLATE GUARANTEE

Importer: SCOTIA ROOFING SUPPLIES LTD	Client: Mr Ross Foster, Snowdrop Developments
Roofer: Strathmore Roofing Ltd.	Architect: Roundhouse Architecture Ltd.
Project Address: Plot 5, Ecclesgreig Gardens, St Cyrus, DD10 0UA	
Quantity Supplied: 9,966 no. Slate Type: Barlosa 400mmx200mm	Date Completed: 18/08/2014

BARREDA LOPEZ E HIJOS S.L. hereby provides a 100 (one hundred) year guarantee against disintegration for the slates produced from its own quarry at la Tayada- Riñoceda and supplied as shown above to this company from the date stated.

In accordance with the testing of an independent laboratory we can assure that our Slate is A1; S1 and T1 as required by BS EN 12326. Barlosa carries the French NF certificate and the Belgian ATG.

Further to the testing we guarantee that any pyrites that might appear will not have any issues as bleeding or disintegration.

This guarantee is effective provided the slates have been fixed in accordance with the relevant European Standards for design and use and also the Code of Practice for workmanship using natural slates.

This guarantee does not cover cracking or damage caused by roof traffic either in the course of installation or subsequently by roofing or other trades nor does it guarantee slates against impact damage caused by any means including falling objects. The guarantee does not cover natural ageing of the slates or changes in appearance over time associated with weathering.

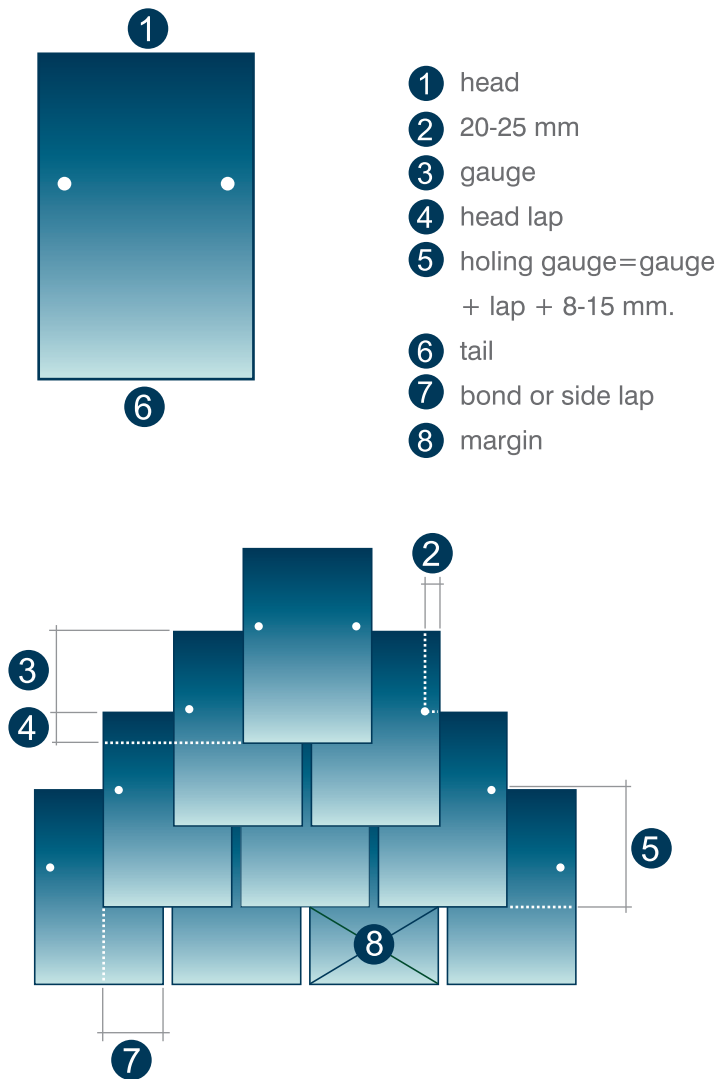
In addition, the slates are not guaranteed from damage by unusual or excessive wind loads over the normal or in excess of the designed range of the roof for such conditions.

BARREDA LOPEZ E HIJOS S.L. will, in event of such failure covered by this guarantee, replace any failed slates or apply a remedy that will satisfy the restoration of the roof to an acceptable condition having due regard to the effects of weathering over the timeframe involved. In such cases other costs involved are covered by this guarantee.

For and on behalf of
BARREDA LÓPEZ E HIJOS S.L.



TECHNICAL INFORMATION




APPLICATION


Full details of roof slating are given in BS5534.

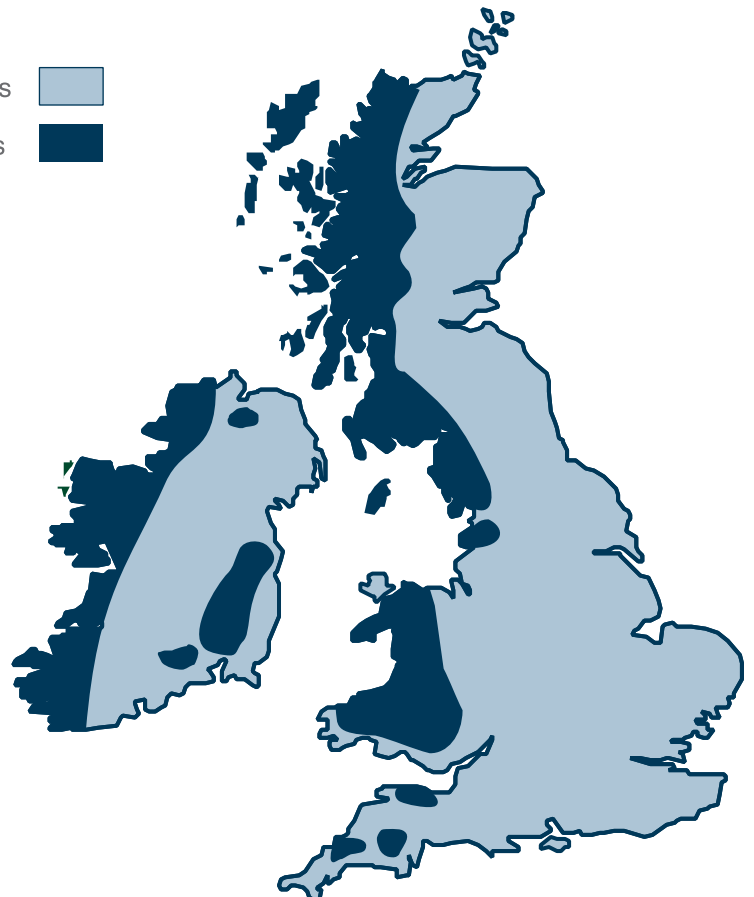
However the main stages are outlined below.

- 1 Sort and hole slates to the correct gauge, measuring from the tail of the slate. At the same time sort the slates into three or four groups of equal thickness.
- 2 Fix underlay as specified.
- 3 Mark out the roof to the correct gauge. The gauge may be adjusted to divide the slope length into equal numbers of courses provided the specified lap is not reduced.
- 4 Check width of the slates and mark out the slate joints (perpend) it is generally necessary to mark only every second perpend.
- 5 Load slates onto the roof so that the thickest slates are in the lower courses and the thinnest are nearer the ridge.
- 6 Fix undereaves courses bed up.
- 7 Fix slates to perpend lines cutting slates as necessary to hips and valleys. All slates must be fixed with two nails. The slate can also be hook fixed.

ANNUAL DRIVING RAIN INDEX AND EXPOSURE

MODERATE 3-5 M²/s 

SEVERE over 7 M²/s 



The map data is based on long periods of observation of rainfall and wind and the amount of rain which would be driven on to a vertical surface in an average year.

The amount of rainfall is expressed in millimetres divided by 1000 and average wind speed in metres per second. Therefore the index is expressed as m²/second.



MINIMUM RECOMMENDED HEADLAP: B.S. 5534.

Slate Size Nominal mm	Moderate Exposure: Driving Rain index less than 7m ² /s Minimum rafter pitch									Severe Exposure: Driving Rain index greater than 7m ² /s Minimum rafter pitch								
	20	22.5	25	27.5	30	35	40	45	85	20	22.5	25	27.5	30	35	40	45	85
600 x 300	130	115	90	80	75	75	65	65	-	-	120	120	115	110	90	80	70	-
500 x 300	115	105	90	80	75	75	65	65	50	-	125	100	95	85	75	75	65	-
500 x 250	125	110	90	80	75	75	65	65	50	-	135	115	110	110	90	75	65	65
400 x 250	-	-	-	85	75	75	65	65	50	-	-	-	-	100	95	75	65	65
400 x 220	-	-	-	85	75	75	65	65	50	-	-	-	-	100	100	85	65	65
400 x 200	-	-	-	90	75	75	65	65	50	-	-	-	-	105	100	90	65	65
350 x 250	-	-	-	80	75	75	65	65	50	-	-	-	-	80	75	75	65	65
350 x 200	-	-	-	80	75	75	65	65	50	-	-	-	-	90	85	75	65	65
300 x 200	-	-	-	80	75	75	65	65	50	-	-	-	-	75	75	75	65	65

Slate Size mm	Slate Size inches	Lap mm	Battening Gauge mm	Slate Qty m ²	Holing Gauge mm	Batten per m ²	Weight per m ² /kgs	
							5/7 mm	7/9 mm
600 x 300	24 x 12	110	245.00	14	370.00	4.08		
500 x 250	20 x 10	110	195.00	21	320.00	5.13		
450 x 250	18 x 10	110	170.00	24	295.00	5.88		
450 x 220	18 x 9	110	170.00	27	295.00	5.88		
400 x 250	16 x 10	110	145.00	28	270.00	6.90	42.80	55.21
400 x 220	16 x 9	110	145.00	32	270.00	6.90	45.50	90
350 x 250	14 x 10	110	120.00	34	245.00	8.33	45.00	57.50
350 x 220	14 x 9	110	120.00	38	245.00	8.33	44.90	55.50
600 x 300	24 x 12	105	247.50	14	367.50	4.04		
500 x 250	20 x 10	105	197.50	21	317.50	5.06		
450 x 250	18 x 10	105	172.50	24	292.50	5.80		
450 x 220	18 x 9	105	172.50	27	292.50	5.80		
400 x 250	16 x 10	105	147.50	28	267.50	6.78	42.00	54.20
400 x 220	16 x 9	105	147.50	31	267.50	6.78	44.70	54.00
350 x 250	14 x 10	105	122.50	33	242.50	8.16	44.10	56.30
600 x 300	600 x 300	100	250.00	14	365.00	4.00		
500 x 250	20 x 10	100	200.00	20	315.00	5.00		
450 x 250	18 x 10	100	175.00	23	290.00	5.71		
450 x 220	18 x 9	100	175.00	26	290.00	5.71		
400 x 250	16 x 10	100	150.00	27	265.00	6.67	41.30	53.30
400 x 220	16 x 9	100	150.00	31	265.00	6.67	43.90	53.00
400 x 200	16 x 8	100	150.00	31	265.00	6.67	43.80	52.90
350 x 250	14 x 10	100	125.00	32	240.00	8.00	43.20	51.20
350 x 220	14 x 9	100	125.00	37	240.00	8.00	43.10	48.90
350 x 200	14 x 8	100	125.00	40	240.00	8.00	43.00	48.80
300 x 200	12 x 8	100	100.00	50	215.00	10.00	47.50	56.70
600 x 300	24 x 12	90	255.00	14	360.00	3.92	40.00	
500 x 250	20 x 10	90	205.00	20	310.00	4.88	42.50	51.60
450 x 250	18 x 10	90	180.00	23	285.00	5.56		51.30
450 x 220	18 x 9	90	180.00	26	285.00	5.56		
400 x 250	16 x 10	90	155.00	26	260.00	6.45		
400 x 220	16 x 9	90	155.00	30	260.00	6.45		
400 x 200	16 x 8	90	155.00	33	260.00	6.45	41.90	51.60
350 x 250	14 x 10	90	130.00	31	235.00	7.69	41.50	53.00
350 x 200	14 x 8	90	130.00	39	235.00	7.69	41.30	52.80
300 x 200	12 x 8	90	105.00	47	210.00	9.52	45.20	54.00
600 x 300	24 x 12	85	257.50	13	357.50	3.88		
500 x 250	20 x 10	85	207.50	20	307.50	4.82		
450 x 250	18 x 10	85	182.50	22	282.50	5.48		
450 x 220	18 x 9	85	182.50	25	282.50	5.48		
400 x 250	16 x 10	85	157.50	26	257.50	6.35	39.40	50.80
400 x 220	16 x 9	85	157.50	29	257.50	6.35	41.80	50.50
400 x 200	16 x 8	85	157.50	32	257.50	6.35	41.30	50.90
350 x 250	14 x 10	85	132.50	31	232.50	7.55	40.75	52.10
350 x 200	14 x 8	85	132.50	38	232.50	7.55	40.55	51.90
300 x 200	12 x 8	85	107.50	47	207.50	9.30	44.18	52.80
600 x 300	24 x 12	80	260.00	13	355.00	3.85		
500 x 250	20 x 10	80	210.00	20	305.00	4.76		
400 x 250	16 x 10	80	160.00	25	255.00	6.25	38.80	50.00
400 x 220	16 x 9	80	160.00	29	255.00	6.25	41.20	49.70
400 x 200	16 x 8	80	160.00	32	255.00	6.25	40.60	50.00
350 x 200	14 x 8	80	135.00	38	230.00	7.41	39.80	50.90
300 x 200	12 x 8	80	110.00	46	205.00	9.09	43.20	51.60
600 x 300	24 x 12	75	262.50	13	352.50	3.81		
500 x 250	20 x 10	75	212.50	19	302.50	4.71		
450 x 250	18 x 10	75	187.50	22	277.50	5.33		
450 x 220	18 x 9	75	187.50	25	277.50	5.33		
400 x 250	16 x 10	75	162.50	25	252.50	6.15	38.20	49.20
400 x 220	16 x 9	75	162.50	28	252.50	6.15	40.60	48.90
400 x 200	16 x 8	75	162.50	31	252.50	6.15	40.00	49.20
350 x 250	14 x 10	75	137.50	30	227.50	7.27	39.30	50.90
350 x 200	14 x 8	75	137.50	37	227.50	7.27	39.10	50.70
300 x 200	12 x 8	75	112.50	45	202.50	8.89	42.20	50.40



BARLOSA is cut and holed using highly efficient equipment.



BARLOSA is handled with extreme care from the moment it is extracted from the quarry.

BARLOSA have designed and installed the very first mechanical splitting machine.

To ensure quality, despite the process being almost fully automated, the final grading and packing of BARLOSA is carried out by highly skilled operatives.



Flatted development
at Peterculter,
Aberdeen -
Ronald A Morrison
Slaters Ltd.



BARLOSA slate is ideally suited
for the harsh Scottish climate.



With a 100 year quarry
backed guarantee,
BARLOSA will stand
the test of time.



Executive housing at St. Cyrus,
Aberdeenshire - Strathmore Roofing Ltd.

BARLOSA slate is
extremely versatile
and compliments
any building design.





BARLOSA enables flexibility and creativity regardless of architectural design.



Re-roof at
Stonehaven - Hillside
Slaters Ltd.

BARLOSA slate. The natural Scottish choice.





BARLOSA

24470 Paraje Loseras, s/n
León • Spain
Teléfono: +34 987 526 538
Fax: +34 987 526 539

Official distributor:



Carseview Road, Forfar, Angus, DD8 3BT
Telephone: 01307 477422 • Fax: 01307 477424
www.scotiaroofingsupplies.com
E-Mail: sales@scotiaroofingsupplies.com
MANAGING DIRECTOR
Marjorie Thomson Tel: 07584 101055
DIRECTOR
Gail Smith Tel: 07584 101053