

From: Anita Gardner
Sent: 21 June 2017 10:48
To: Planning.Responses
Subject: FW: K/21/17/DOC - Materials Panorama, Golden Acre, Kingston

Please can this e-mail and attachments be added to the application as additional info from agent

Anita Gardner | Principal Planner, Planning Department, Arun District Council | Location: First Floor, Arun Civic Centre, Maltravers Road,
Littlehampton, BN17 5LF
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Visit Arun's web site at www.arun.gov.uk



Save the environment - think before you print.

From: [REDACTED]
Sent: 21 June 2017 10:39
To: Anita Gardner
Cc: Lucinda Sanford
Subject: RE: K/21/17/DOC - Materials Panorama, Golden Acre, Kingston

Dear Ms. Gardner

As requested, please find attached specification sheets of the proposed grey slate roof tiles.
The proposed roof tiles type is SIGA 39 Spanish Natural Slate Blue/Grey.

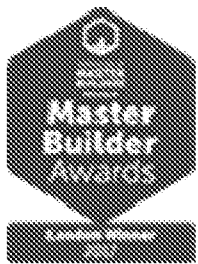
Please let me know If you require any additional information or documents.

Thank you.

Kind Regards,
Boyana Radin
Architectural and Design Team Assistant

• SANFORD •

Unit 11 Rotherhithe Business Estate
214 Rotherhithe New Road
London SE16 3EH
www.lucindasanford.com



From: Anita Gardner [<mailto:Anita.Gardner@arun.gov.uk>]
Sent: 16 June 2017 13:43
To: [REDACTED]
Subject: FW: K/21/17/DOC - Materials Panorama, Golden Acre, Kingston

Dear Mrs Sanford,

I refer to the above application. Before I can discharge the condition in relation to the roofing material I will require precise details of the proposed grey slate roof ie. manufacturer, colour. I would appreciate receipt of further details within the next 7 days.

Regards
Anita Gardner

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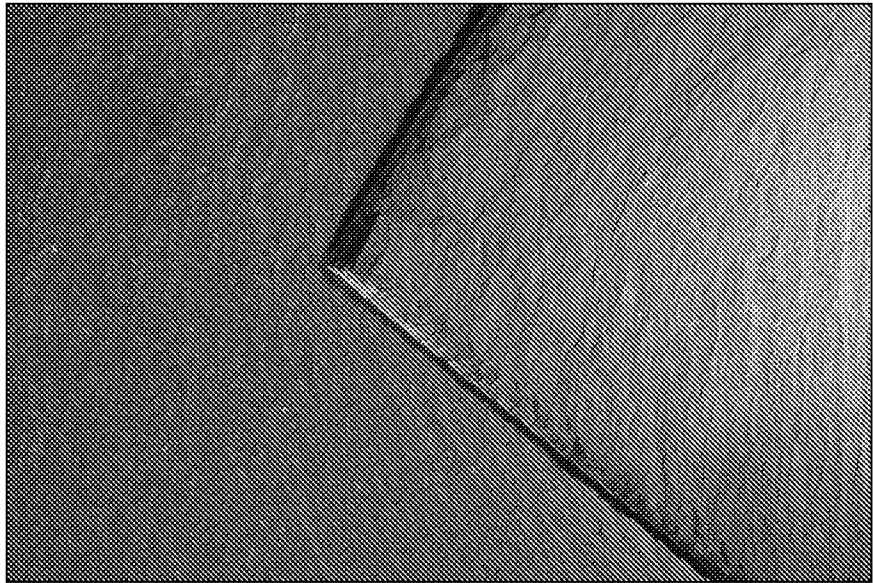
<http://www.arun.gov.uk>

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Roof: SIGA 39 Spanish Natural Slate Blue/Grey



External walls: 65mm Karma white handmade bricks

Declaration of Performance

No. 39-DoP2015-03-26

1. Unique identification code of the product-type:	SIGA 39		
2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):	300x200 – 600x450 Ourense Region, Spain		
3. Intended use or uses of the construction product, in accordance with the applicable harmonized Technical Specification, as foreseen by the manufacturer:	Slate and carbonate slate for discontinuous roofing and cladding		
4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):	SIG Roofing Harding Way, St. Ives, Cambridgeshire, PE27 3YJ		
5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):	N/A		
6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:	AVCP System 4		
7. Declared Performance			
Essential characteristics	Performance		Harmonised technical specification
Dimensional variation			EN 12326-1:2014
-Nominal thickness	5mm		
-Individual thickness	5mm +-35%		
-Deviation of length and width	Complies		
-Deviation from edge straightness	Complies		
-Deviation from rectangularity	Complies		
Mechanical resistance (Characteristic modulus of rupture)	Transverse:	56 N/mm2	
	Longitudinal:	55 N/mm2	
Water absorption	0,18% Code: W1(≤ 0,6%)		
Apparent calcium carbonate	0,33% (≤ 20 %)		
Durability:			
-Water absorption	0,18% Code: W1(≤ 0,6%)		
-Freeze-thaw cycling	Not Required		
-Thermal cycling	T1		
-Sulfur dioxide exposure	S1		
-Non-carbonate carbon content	0,42% Complies (≤ 2%)		
Release of dangerous substances	None in conditions of use as roofing or external cladding		
External fire performance	Deemed to satisfy		
Reaction to fire	Deemed to satisfy class A1		

8. The performance of the product identified in Points 1 and 2 is in conformity with the declared performance in point.

7. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:



Name and function: Andrew Wakelin, Managing Director

Place of issue: SIG Roofing, Harding Way, St. Ives, Cambridgeshire, PE27 3YJ

Date of issue: 28/10/2015



Technical Specifications

Fixing

Fixing SIGA 39 slates is straightforward for an experienced slater. They can be fixed by either traditional nailing, or by the modern hook system. Further fixing information is provided below – for a comprehensive guide, please refer to BS 5534. Most SIGA slates come preholed at a nominal 90mm headlap. By simply moving the location of the slate on a standard 50x25mm batten, these can be fixed to obtain headlaps between 72 and 116mm, allowing them to be used on a variety of pitches.

Nail fixing:

Nails should be copper or aluminium to BS 1202. In corrosive or marine atmospheres copper nails are preferable and in severe conditions silicone bronze nails should be used.

The nail head diameter should be at least 10mm to comply with BS 5534 to minimise the risk of the nail head pulling through the slate. A 10mm head is only possible where the nail shank is 3mm diameter or greater.

Hook fixing:

All natural slates can be fixed using slate hooks. The hook method offers considerable freedom in design and can save up to 25% on labour costs and eliminate breakages.

With the hook fixing system, the slates are secured at the tail, thus providing strong resistance to wind uplift. To comply with

BS 5534, hooks should be stainless steel, 18/10 or 316 (marine) grade, 2.7 mm gauge and at least 5 mm longer than the minimum lap required. Only "spike-end" or nail-in hooks are permissible under BS 5534.

Please refer to the SIGA brochure for more details regarding fixing, coverage, batten and holing gauges, headlaps and exposure.

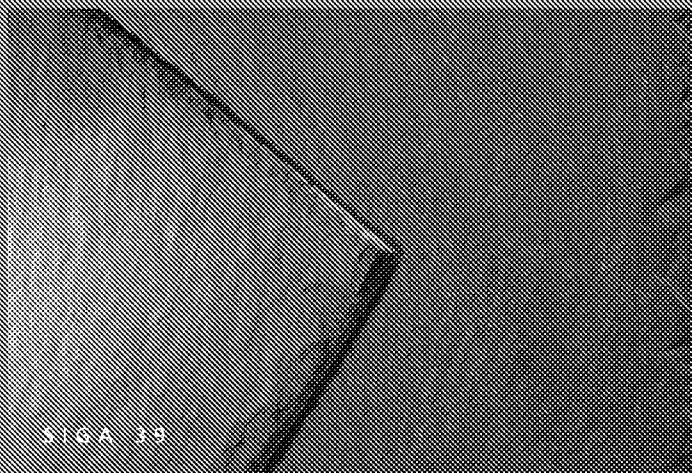
A guide to the European Standards EN 12326-1:2004

- In July 2004 a European standard for roofing slates was published, BS EN 12326-1:2004 Slate and Stone Products for Discontinuous Roofing. This standard replaces all previous standards throughout Europe including BS 5534, the previous standard for roofing slates.
- The standard is established against a series of tests carried out on each product under controlled conditions.
- Any manufacturer claiming conformity with the product specification must carry out the tests relevant to their product and make the results available in a report.
- The report is officially called the ACD (Accompanying Commercial Document) and comprises two parts, both of which must be present for the ACD to be a complete report.
- Part 1 relates to the information about the manufacturer (producer), the slate source and the testing together with the test results.

- Part 2 explains the meaning of the tests and what is required for conformity to the standard.
- The new standards offer different levels of conformity for a given characteristic. (E.g. thickness of the slate) with respect to the rock from which they are made. These relate to different durability acceptable in different countries.
- It is no longer acceptable to specify "Slates which conform to the relevant British Standard" or even slates which conform to BS EN 12326-1. These blanket specifications would allow slates to be supplied at the lowest conformity level within a standard and this could mean that the client receives a sub standard product.
- For detailed information on BS EN 12326, please see the SIGA Slate brochure or contact your SIGA slate representative.

Design Life

SIGA slates should last the design life of the building and come exclusively from traceable quarries with a history of producing durable roofing slate. SIGA slates have been installed on homes, major projects and prestigious projects for many years. For the latest installations, please see our case studies page at www.sigaslate.co.uk



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