(2) Following a visit by Diane Fairchild (at our invitation) we intend to nurture all trees namely Ash x 2. Laburnum x1, Apple Pear x 1. Alder x1. Willow x1. We will carry out formulative pruning to the above, (particularly where it overhangs the public road), cutting out all dead wood and removing wild elder.

(3) & (4) All existing boundary hedging will be kept - pruning where necessary on roadside. The NW & SW aspects will be planted with a mixed traditional species hedgerow - beech blackthorn, crab apple, dogwood, hawthorn and holly, in order to blend into the environment and create refuge and food for wild life.

(5) Concrete paths exist already.
The driveway will be ~~refurbished~~ refurbished with limestone hardcore and gravel.

(6). The brickwork panel requested has been constructed on site with new bricks + Walcott Red, as already seen by the planning officer using a lime mortar.

(7). Grey natural roof tiles are our material of choice with ample ridging. A sample is on site. They will be supplied by Tunstall of Boston. Please see the report by IBIS attached.

(8). The rainwater goods will be Marley's alutec alligator classic range in black aluminium.

(9). As above with rise and fall brackets. No fascia's will be used.

(10). Back door will be purpose made by Barnsdale of Doncaster fitted with a shootbolt locking system - painted in cream as a stable style. Please see attached for specifications.
Front door will be made as above. 4 panelled with the 2 upper panels glazed. The lower panels will be raised and fielded. Specifications are attached. More details available only after order

(11) Again, Barnsdale are making the windows. The 4 front are identical - traditionally hung recessed box sash windo of redwood with horns on the upper sliding sash. With the window brickwork already existing a 6/6 glazing pattern has been chosen using a vertical emphasis. A statement and compliance with building regs part I is guaranteed. The remainder are flush casement. All will be painted in cream

Attached are details of these windows - cross sectionally.

(12) Cross sectional detailed drawings of the eaves and verges are attached. Because we are not using fascia boards there are 2 courses of brickwork showing. The first floor window openings have not changed from the original photo's.

(13). On the whole the existing structure is sound; bricks true and true, lime mortar good. Some parts have been pointed with a stronger mix. Some joints at damp course level need repointing with 3:1 lime putty mortar mix. If possible on your visit to inspect the square metre of brick could we discuss and annotate it then?

(14). The lean-to extension will be taken down and rebuilt to match existing as near as possible but will not be bonded into the main building

(15) There will be no external boxes for gas and electricity or gas flues. We do not intend to use these mains service There will be an internal soil + vent pipe.

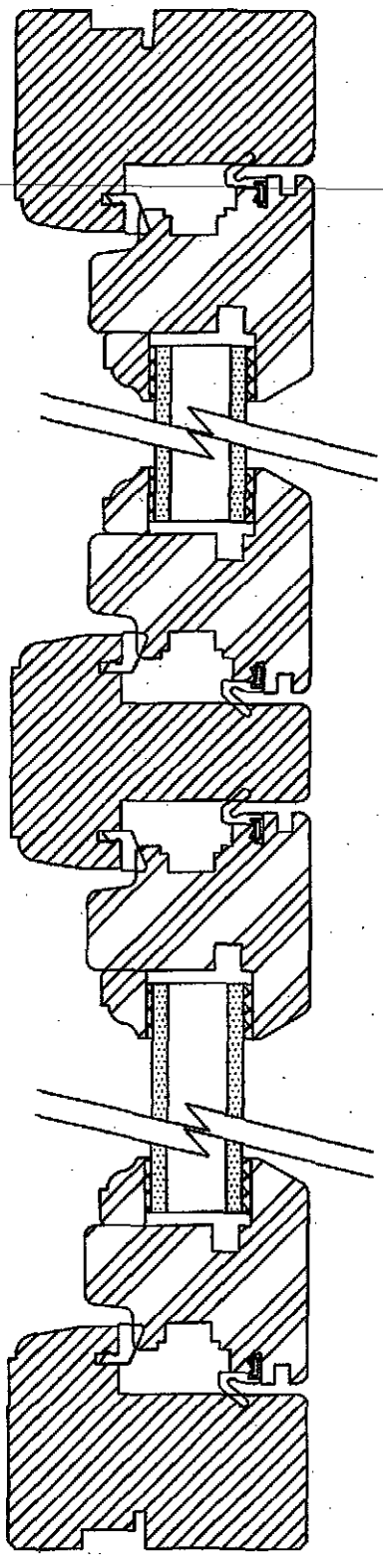
(16). Any other alterations & additions if wanted will be applied for at a future date.

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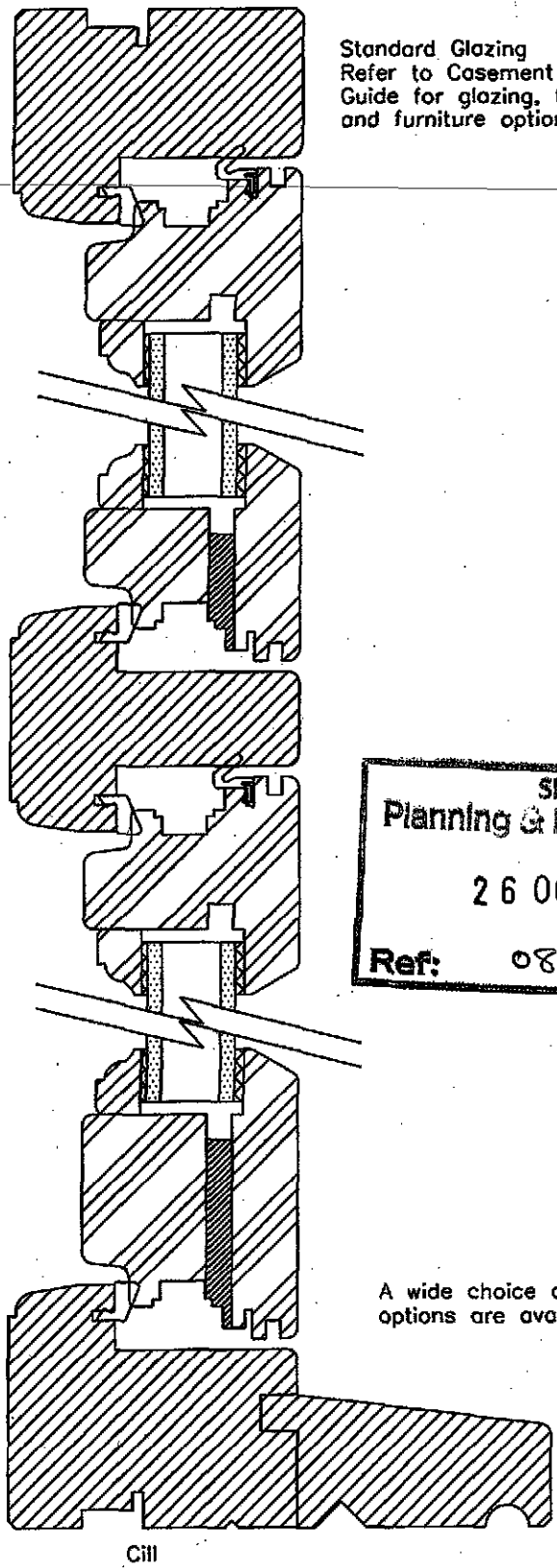
BARNSDALE

ARCHITECTURAL DETAILS

C2-59-3 AD
Flush Casement (59mm)
August 2005



Jamb



Cill

Standard Glazing
Refer to Casement Specification Guide for glazing, finishing and furniture options

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A wide choice of cill options are available.

Scale - 1:2
Standard Sections

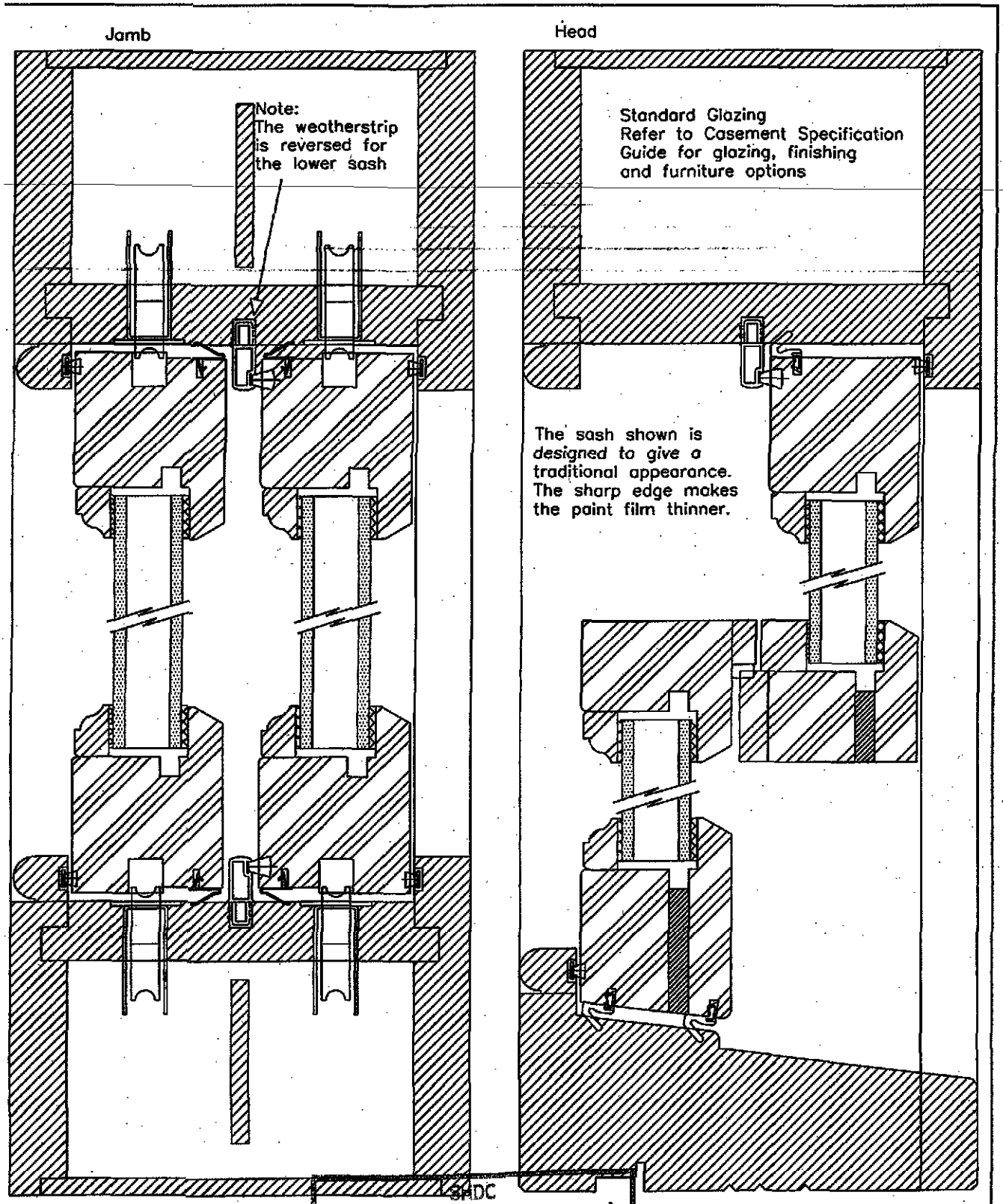
All drawings are available in electronic format pdf, dxf, dwg.

www.georgebarnsdale.co.uk
email: admin@georgebarnsdale.co.uk
Telephone:01775 823000

George BARNSDALE & Sons

ARCHITECTURAL DETAILS

S1-53-2 AD
Box Sliding Sash (53mm)
September 2004



Jamb

See separate details for Sash & Glazing bar options.

See separate details for extended cill options

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Scale - 1:2
Standard Sections

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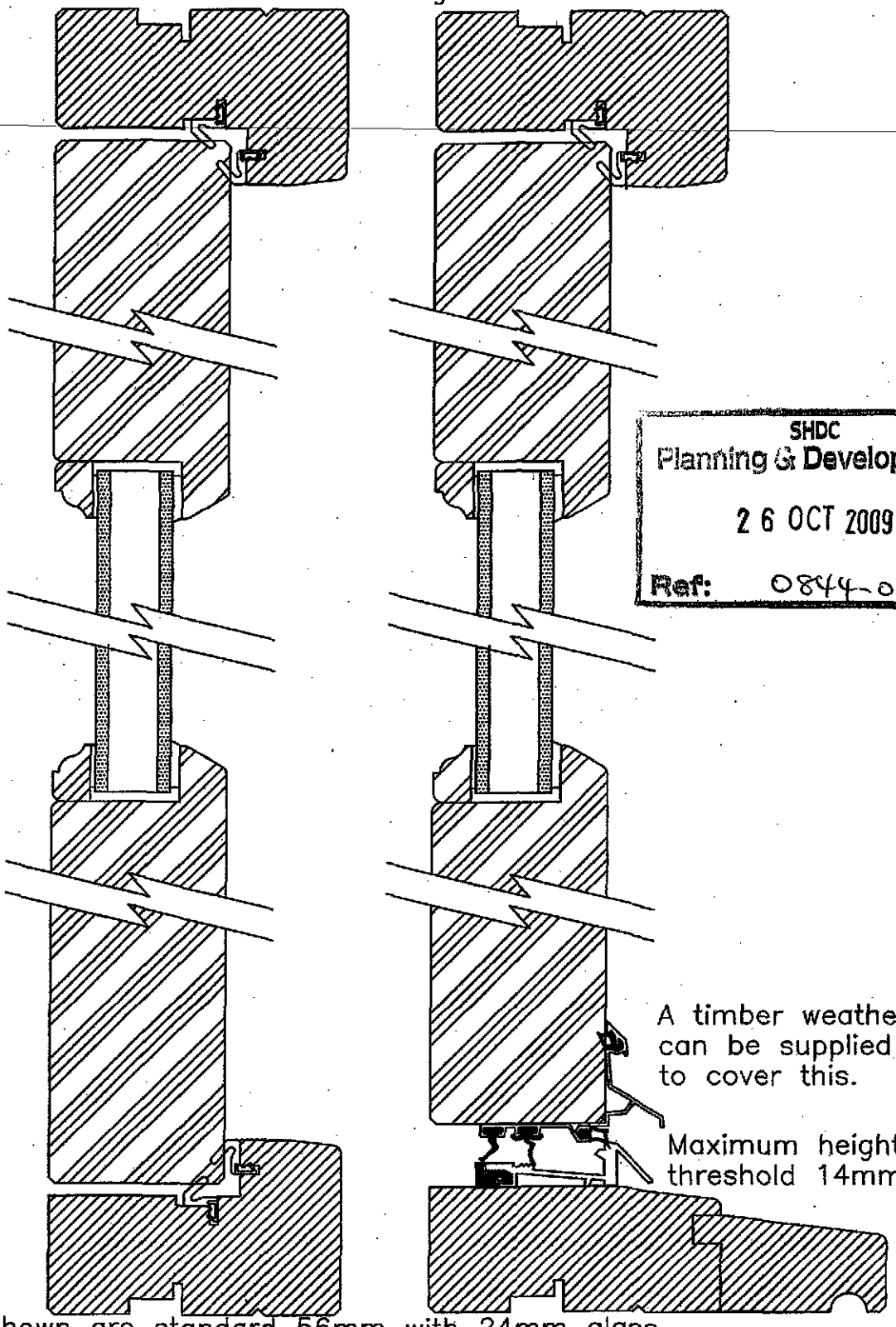
BARNSDALE

ARCHITECTURAL DETAILS

CI/SfB (31.5)

DS2-3 AD
Inward Opening 56mm Door set
October 2006

Ask for details for screens & sidelights



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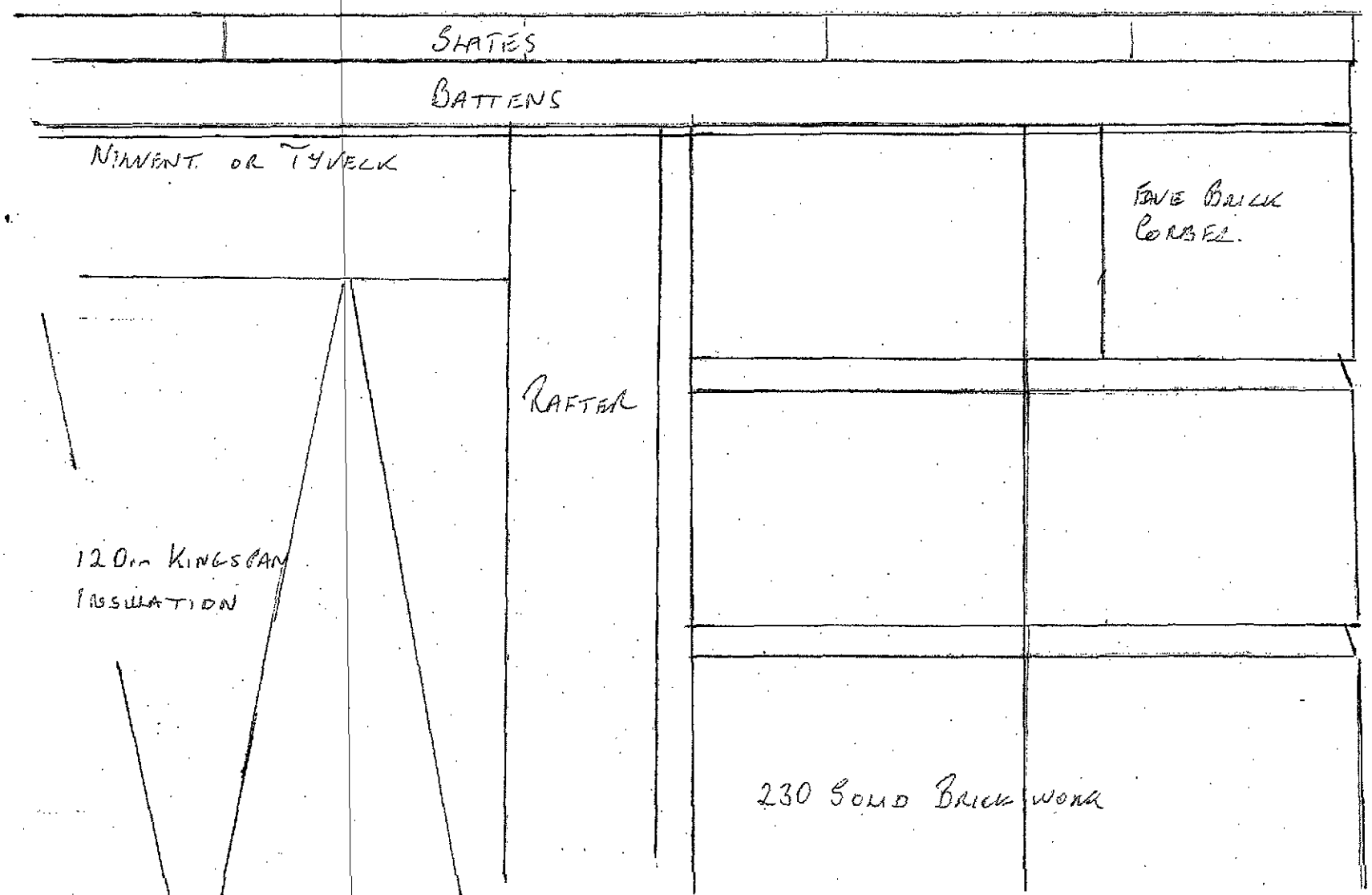
Note:
Doors shown are standard 56mm with 24mm glass.
An extensive range of options are available.

Scale - 1:2
Standard Sections

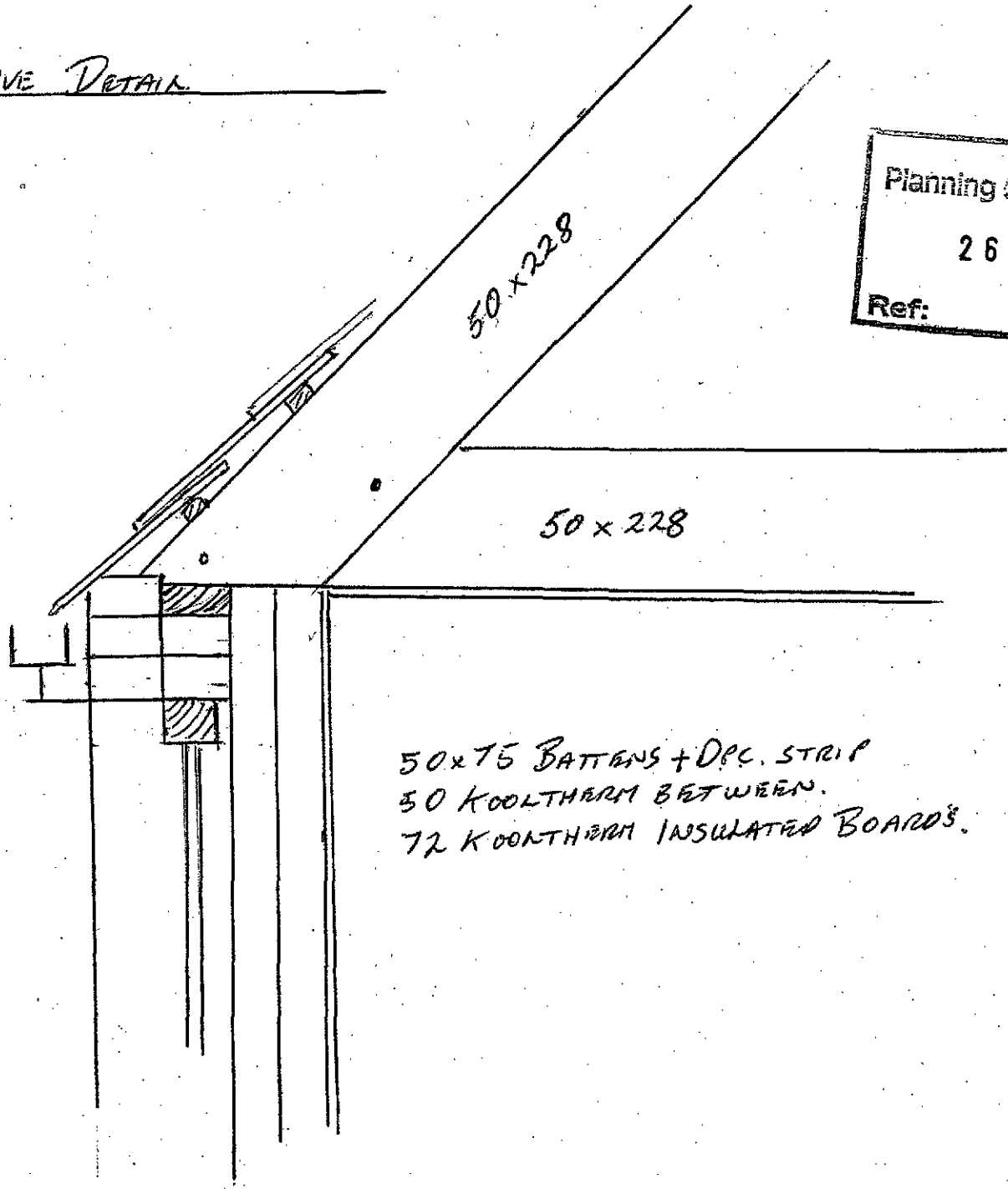
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VERGE DETAIL



EAVE DETAIL.

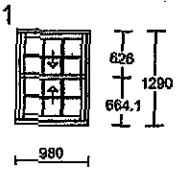
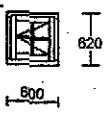
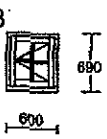
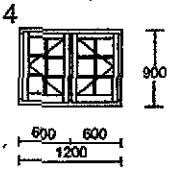


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220 SOLID WALL.

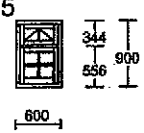
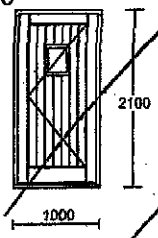
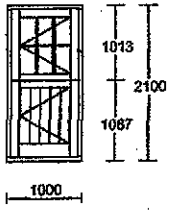
SLIDING-SASH WINDOW

50 x 75 BATTENS + DPC. STRIP
50 KOOLTHERM BETWEEN.
72 KOOLTHERM INSULATED BOARDS.

Item	Description
1 	**~~S2-59-Spiral~~ Sliding Sash** *Timber* Box. : *J see intro text* Paint : FF Cream Weatherstrip : White *Fitting* : 1 x Slide Down 1 x Slide Up - Pol/Brass Fittings POCill / WBG : No / No Frame Profile : Standard Sash Profile : Standard Sash Bar : Standard POB+IB Glass (In/Out/Gas/Spacer) : 4FloatLowE/4Float/Argon /BlackAlu Size : 980x1290 • No Vent Fitted
2 	**C102-F C2-81-59 Flush Casement** Timber : S/W Heartwood Paint : FF Cream Weatherstrip : White Fitting : 1 x L/H Friction Hinge POCill / WBG : 70mm / No Frame Profile : Standard Sash Profile : Standard Sash Bar : Standard POB+IB Glass (In/Out/Gas/Spacer) : 4FloatLowE/4Float/Argon /BlackAlu Size : 600x 620 • *Titon RH TF1430 Handle* Albrafin Gold - 102 • No Vent Fitted
3 	**C102-F C2-81-59 Flush Casement** Timber : S/W Heartwood Paint : FF Cream Weatherstrip : White Fitting : 1 x L/H Friction Hinge POCill / WBG : 70mm / No Frame Profile : Standard Sash Profile : Standard Sash Bar : Standard POB+IB Glass (In/Out/Gas/Spacer) : 4FloatLowE/4Float/Argon /BlackAlu Size : 600x 690 • Titon RH TF1430 Handle Albrafin Gold - 102 • No Vent Fitted
4 	**C203-F C2-81-59 Flush Casement** Timber : S/W Heartwood Paint : FF Cream Weatherstrip : White Fitting : 1 x L/H Friction Hinge 1 x R/H Friction Hinge POCill / WBG : 70mm / No Frame Profile : Standard Sash Profile : Standard *Sash Bar* : *Standard POB+IB* Glass (In/Out/Gas/Spacer) : 4FloatLowE/4Float/Argon /BlackAlu Size : 1200x 900 Titon RH TF1430 Handle Albrafin Gold - 102 Titon LH TF1430 Handle Albrafin Gold - 102 No Vent Fitted

SNDC
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George Barnsdale & Sons Ltd
High Street | Donington | Spalding | Lincolnshire | PE11 4TA
Tel No : 01775 823000 | Fax No : 01775 823010 | Email : sales@georgebar

Item	Description
5 	**C107-F C2-81-59 Flush Casement** Timber : S/W Heartwood Paint : FF Cream Weatherstrip : White Fitting : 1 x T/H Friction Hinge 1 x Fixed Sash POCill / WBG : 70mm / No Frame Profile : Standard Sash Profile : Standard Sash Bar : Standard POB+IB Glass (In/Out/Gas/Spacer) : 4FloatLowE/4Float/Argon /BlackAlu Size : 600x 900 • Titon RH TF1430 Handle Albrafin Gold - 102 • No Vent Fitted
6 	**DS2-56 Inward Opening Door** Timber : K see intro text Paint : FFCream/TeakCill Weatherstrip : White Fitting : 1 x LH Brass Hinge POCill / WBG : 50mm / No Frame Profile : Standard Sash Profile : Standard Glass (In/Out/Gas/Spacer) : Painted V-Groove Panel Size : 1000x2100 • Allart 5265 Door Handle c/w 125Sp Polished Brass (PB) • 35/45mm Double Cylinder Brass • Glass Vision Panel with p/o/b • No Vent Fitted
7 	**DS5-56 Outward Opening Door** Timber : K see intro text Paint : FFCream/TeakCill Weatherstrip : White Fitting : 2 x LH Brass Hinge POCill / WBG : 50mm / No Frame Profile : Standard Sash Profile : Standard Sash Bar : Standard POB+IB Glass (In/Out/Gas/Spacer) : 4ToughLowE/4Tough/Argon /BlackAlu, Painted V-Groove Panel Size : 1000x2100 • Allart 5265 Door Handle c/w 125Sp Polished Brass (PB) • 35/45mm Double Cylinder Brass - Keyed alike (2885607) • Frank Allart 1893E Escutcheon Polished Brass (PB) • Allart 6473 Bolt 150mm Polished Brass • No Vent Fitted

Investigation of River Grey Natural Roofing Slate

Report commissioned by
China Slate Limited
Wingfield View
Coney Green
Clay Cross
Chesterfield
Derbyshire
S45 1ZZ

IBIS Report 1278-C/001, November 2005

Document Control

Independent Building Investigation Services Limited (IBIS) has prepared this report in accordance with instructions received from Mr Tim Mak of China Slate Limited ("the Client") in an e-mail dated 7 September 2005.

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For IBIS Limited

Barry Hunt

Barry J Hunt
BSc MSc MASI MCIOB CGeol EurGeol FGS CSci MRICS FRMS
Director

Status of report:	Final
Issue number:	1
Date of issue:	03 November 2005

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maintenance
endoscopy
X-ray diffraction
scanning electron microscopy
conservation advice
microscopy
bespoke solutions

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building stone
roofing slate
concrete
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plaster
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Investigation of River Grey Natural Roofing Slate

Executive Summary

Advised River Grey natural roofing slate has been subjected to the test requirements of the current applicable European Standard. The findings have then been employed to classify the slate, providing an indication of likely performance.

The River Grey natural roofing slate was confirmed to be true slate in that it comprised extremely finely crystalline metamorphic rock exhibiting a slaty cleavage. The various tests determined the following information:

- Dimensional requirements all within acceptable tolerances.
- Moderate flexural strength both transversely and longitudinally.
- No evidence of a longitudinal grain or secondary splitting plane.
- Exhibited the top Class A1 for water absorption.
- Freeze-thaw cycling not required to be carried out.
- Exhibited the top Class T1 for thermal cycle resistance.
- Exhibited the top Class S1 for sulfur dioxide exposure resistance.
- No requirement for thickness adjustment.
- The determined minimum individual thickness of 4.6mm suggests the lower end value of the slate thickness range should be increased.
- Acceptable non-carbonate carbon content.
- Unlikely to release dangerous substances in normal use.
- Satisfactory external fire performance.
- Exhibited the top Class A1 for reaction to fire.

On the basis of the various test results the advised River Grey natural roofing slate would appear suitable for use in traditional slate roofing construction.

The European Standard does not provide advice on the life expectancy based on performance in the tests. Taking guidance from the American roofing slate standard specification and performance in both the strength and absorption tests, it is suggested that a service life of between 40-75 years should be expected.

The petrographic examination did not identify any specific minerals or features that suggest problems could be experienced that would reduce life expectancy.

NOTE: This executive summary is provided for initial briefing purposes only and should not be substituted for the main body of the report and the detailed conclusions and recommendations provided therein.