



Sandtoft 

Humber

Type		Machine Made Plain Tile with Double Camber
Size		265 mm x 165 mm
Material		Natural Alluvial Clay
Durability		Guaranteed for 60 Years

Humber
Plain
Tile

The Humber plain tile combines beauty with hands-on practicality. Clean lines and a double cambered design deliver striking aesthetics whilst the use of Sandtoft's easy-to-cut alluvial clay, provides higher levels of on-site flexibility.

Available in four rich colours and offering exceptional durability, the Humber tile will never fade; weathering and maturing naturally to create a roof of character and elegant charm.



The
Art of
Clay

Made From the Finest Alluvial Clay

Each Humber tile is made with finest quality alluvial clay from the plains of the river Humber. Sandtoft has been working with this premium quality clay for over a hundred years, producing highly durable roof tiles rich in colour and texture.



All our raw clay is carefully prepared, milled and left to sour to ensure complete consistency. Once pressed, tiles are dried using the recycled heat from our kilns, before entering our energy-efficient, continuous tunnel kiln to be fired at a consistent and precise temperature.

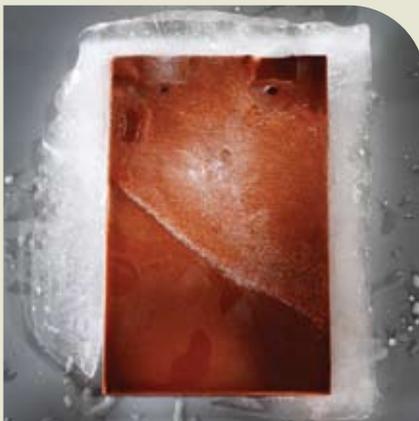
By combining the use of the latest ceramic technology with over a century of experience we are able to bring out the very best of one of the finest natural building materials in the world.

Buildings in the UK must withstand one of the most aggressive climates in the world. Whilst in this country we do not experience the most extremes of heat or cold, the frequent cycles of soaking, freezing and thawing can test roofing materials to the limit. These unique conditions have been recognised in the latest European Standard for frost testing of clay roof tiles.

The most recent research in the UK has shown that the current frost test requiring tiles to pass 100 cycles of freezing and thawing is inadequate; ie. tiles that only just reach this level may well fail within the first few years of service.

A new test has been developed to replace the old frost test method. The new European Standard will require a pass level of 150 cycles. However, in the UK version of the Standard, the recommended pass level has been raised to 400 cycles. Experts believe that clay tiles should reach this level to be considered suitable for use in the UK. That is why Sandtoft now routinely tests its clay tiles to 400 cycles and beyond.

Experience and technology combined with constant research and testing ensure that every Humber tile lasts at least 60 years, even in Britain's harsh climate. Sandtoft designs clay tiles not just to pass a standard but to last a lifetime.





Colour: Tuscan

Design
Flexibility

From turrets to townhouses

The Humber roof tile is the archetypal British roof covering, combining durability and versatility with precision and beauty. The tile's simple design and easy-to-cut properties make it a popular choice for a diverse range of roof styles.

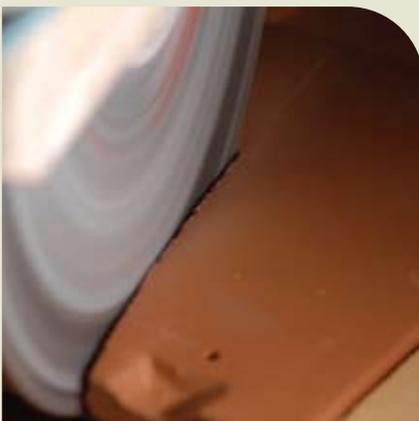


Colour: Natural Red

The Humber tile lends itself perfectly to roofs that are a little different. Its small scale and double camber make it ideal for bespoke details such as turrets, conical roofs and eyebrow features, creating distinctive roof designs and providing solutions for complex renovations.

This versatility makes Humber an ideal choice for vertical tiling work. Originally used to provide a lightweight means of waterproofing the upper floors of timber-framed buildings, vertical tiling is increasingly specified as a cost effective, yet highly decorative cladding solution. Vertical verge details such as Winchester and Sussex cutting and Soldier courses further add to the aesthetic appeal of vertical tile hanging.

And because it is so easy to work with, installation times are kept to a minimum - even on complex roofs.



Sandtoft's alluvial clay is easy to cut on-site

For a copy of A Guide to Plain Tiling – Including Vertical Tiling, by the Clay Roof Tile Council please contact Customer Support on 0870 145 2020 or order online at www.sandtoft.com



Colour: Natural Red

100% Green Commitment

Choosing the Humber tile means choosing the product of a truly eco-conscious company. At Sandtoft, we are passionate about reducing our impact on the environment and providing the construction industry with greener building materials. Our manufacturing processes are audited to environmental standard ISO 14001, but on top of this, we have taken radical steps to reduce our CO₂ emissions.

Significantly, we have switched the entire Sandtoft operation to 100 percent renewable electricity, begun an ambitious conversion of our vehicles to 100 percent biodiesel and undertaken a range of other energy efficiency methods. All of our clay pits are adjacent to our factories, reducing the CO₂ generated through the transportation of raw materials, and we endeavour to source all of our third-party materials from quality local suppliers.

In 2000, the ceramic industry made a pledge to the government that the sector will reduce its carbon emissions by 10 percent before 2010. Through our proactive environmental policies, Sandtoft achieved this target more than four years ahead of schedule; and since 2001, we have reduced the carbon footprint of our clay business by 40 percent. However – we don't

intend to stop there. We will continue to adapt and evolve our operation to further reduce our carbon emissions.

We are also reducing our landfill waste, working towards becoming a zero landfill business. The vast majority of our waste is already recycled back into the manufacturing process and our fired clay waste is used as hardcore for road construction. Because our clay roof tiles are so durable, they are often reused, either on other installations or for a variety of different applications. We actively encourage this second lifecycle and appreciate the environmental value of reusing building materials.



Humber achieves a BRE
Green Guide rating of 'A'

Technical Data



Colour: Natural Red

Humber

Technical Data

Minimum Roof Pitch
Headlap (minimum)
Batten spacing at max. gauge
Size of tile
Covering capacity at max. gauge
Cover width
Profile depth
Hanging length
Weight as laid
Weight per 1000
Weight per tile
Weight per pallet (including pallet/packaging)
Quantity per pallet
Battens per m ²
Batten size -
Up to 450 mm rafter centres
Up to 600 mm rafter centres
Nail size/type for tiles

Roof

35°
65 mm
100 mm
265 x 165 mm
60.0 tiles per m ²
165 mm
13 mm
245 mm
68.4 kg per m ²
1.1 tonnes
1.1 kg
0.6 tonnes
520*
10 m
38 x 25 mm
38 x 25 mm
38 x 3.35 mm aluminium clout head

Vertical

75°
38 mm
114 mm
265 x 165 mm
53.0 tiles per m ²
165 mm
13 mm
245 mm
60.4 kg per m ²
1.1 tonnes
1.1 kg
0.6 tonnes
520*
8.7 m
38 x 25 mm
38 x 25 mm

Classification

Type	Machine made plain tile with double camber
Material	natural alluvial clay
Style	small format
Fixing	double lap, cross bond

Guarantees

Durability guarantee	60 years
Roof SPEC guarantee	20 years

Environment

Manufactured using 100% green electricity, helping to achieve a reduction of our clay products' carbon footprint by 40% since 2001. Raw clay from abundant reserves located adjacent to production facility. Product can be reclaimed so it has a second life cycle

Standards

Quality
BS EN ISO 9001: Quality management systems

Environmental
BS EN ISO 14001 Environmental management systems

Manufacturing
BS EN 1304: Clay roofing tiles
BS EN 1024: Geometric characteristics
BS EN 538: Flexural Strength
BS EN 539-1: Impermeability
BS EN 539-2: Frost resistance

Note: Unless otherwise stated, data is based on tiles laid at minimum headlap
* Humber in Antique Slate are packed in quantities of 500 tiles per pallet



Design & fixing

BS 5534: Code of practice for slating and tiling
 BS 8000-6: Workmanship on building sites
 BS 5250: Control of condensation

Fire resistance

BS EN 1304: deemed to satisfy
 BS 476-3: SAA rated

In use

The contractor must work in accordance with BS 8000-6 and fix all tiles in accordance with BS 5534. Our Fixing SPEC service, together with installation guides for tiles and systems, are available for download from our website or contact Technical Support for assistance on 0870 145 2021.

Maintenance

Extremely low maintenance. Only periodic removal of debris or growth required if in high-risk areas.

Packaging and storage

Supplied shrink wrapped on pallets. Download Safe Stacking recommendations from our website or contact Customer Support for assistance on 0870 145 2020.

Health & safety

Adhere to current health and safety rules at all times. Download COSHH sheets from our website or contact Customer Support for assistance on 0870 145 2020.

Colours



Natural Red (65)



Flanders (66)



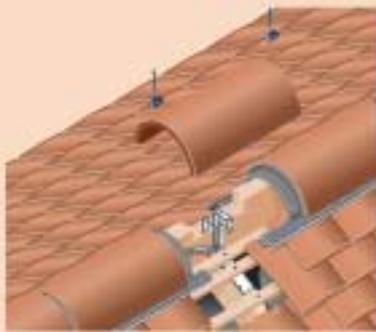
Tuscan (69)



Antique Slate (68)

Humber Fittings & Accessories

Profile Ridge system



Components

Each pack has sufficient components to clad ridge for 2.7 metres of edge.

Profile Mono Ridge system components

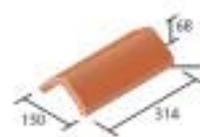
Each pack has sufficient components to clad ridge for 2.7 metres of edge. For use with 305 mm ridges.

Eaves ventilation system



Components

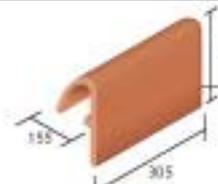
The Sandtoft eaves ventilation system is available in 8 metre packs. Systems are available in 10 mm and 25 mm.



Baby ridge



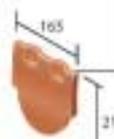
Half round
Length 305 and 467mm



Half round mono ridge



Insulant



Feature top
Club pattern



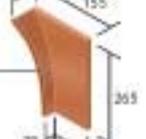
Feature tile
Club pattern



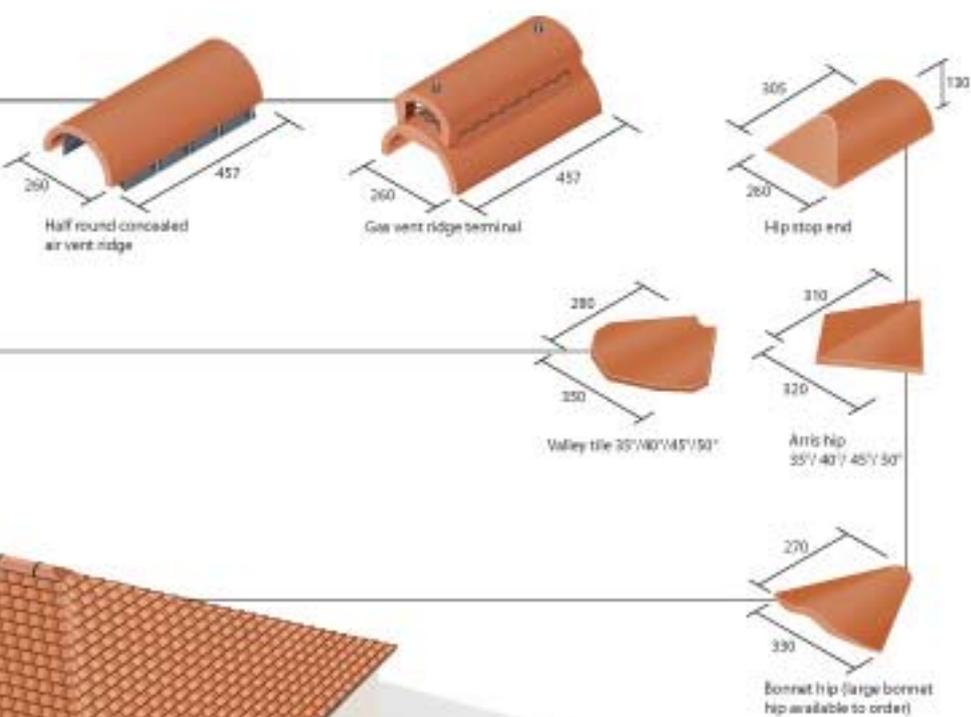
LH & RH feature
tile-and-a-half tile
Club pattern



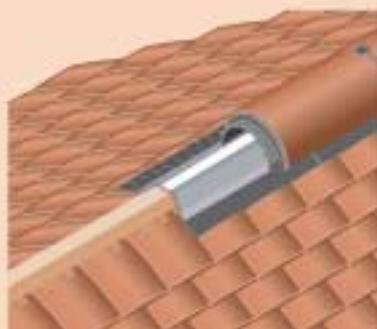
External angles
90° LH & RH
135° LH & RH



Internal angles
90° LH & RH
135° LH & RH



Rollridge system



Components
Each pack has sufficient components (excluding ridges) for 5.0 metres of ridge. For use with 305 mm ridges.

Roll Hip system

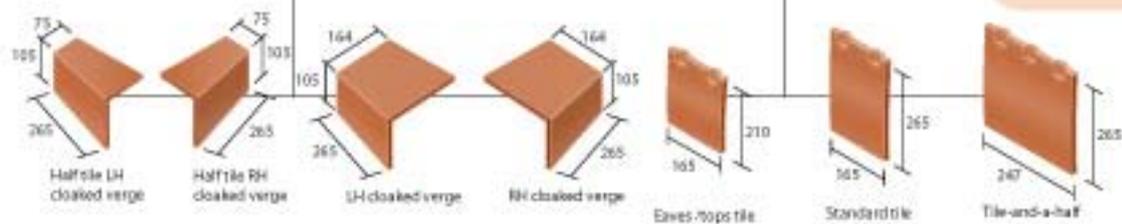


Components
Each pack has sufficient components (excluding hip tiles) for 5.0 metres of hip.

Abutment ventilation system



Components
The Sandtoft Rollvent top abutment ventilation system comes in 3 metre rolls and is suitable for all profiles. Copper fixing clips are included to secure the Rollvent and lead flashing.



Support



Colour: Natural Red



Colour: Flanders

Quality products with complete support

Customer Support and General Enquiries

Tel 0870 145 2020

Fax 0870 145 2019
info@sandtoft.co.uk
www.sandtoft.com

Technical Support

Tel 0870 145 2021
Fax 0870 145 2019
technical@sandtoft.co.uk

Ordering and deliveries

Clay products
Tel 0870 145 2022
Fax 0870 145 2018
orders@sandtoft.co.uk

Sandtoft Training and Assessment Centre (STAC)

Tel 0870 145 2020

To ensure total peace-of-mind, Sandtoft offers a range of support and guarantee packages that encompass design, specification and installation.

Durability Guarantee

The roof is the single most exposed element of the building envelope – and as such, it needs to be as durable as it is beautiful. At Sandtoft, we are committed to providing the highest quality roofing solutions, and we are willing to provide the guarantees that will offer you peace of mind when investing in our products. All of our clay roof tiles are guaranteed to last at least 60 years, but we go beyond simple durability guarantees.

Roof SPEC Guarantee

Sandtoft can also provide a comprehensive design specification for your roof; a design specification that we will guarantee for 20 years under our Roof SPEC guarantee system. With Roof SPEC you can be assured that your roof is designed to comply with all of the relevant building standards and best practices, and is guaranteed to remain weathertight for 20 years.

Fixing Specifications

Sandtoft also offers the Fixing SPEC comprehensive fixing specification service – designed to ensure your roof is fixed correctly and securely in accordance with the relevant British Standards. Using BRE BREV data, our postcode-based system provides quick and accurate fixing recommendations to suit your project's geographical position and design specifics. Fixing SPEC is available through our website at www.sandtoft.com – simply fill in your project details and we'll do the rest.

CAD Library

To help save you time, we also offer a vast online library of CAD details through our website, in DWG, DXF and JPEG formats.

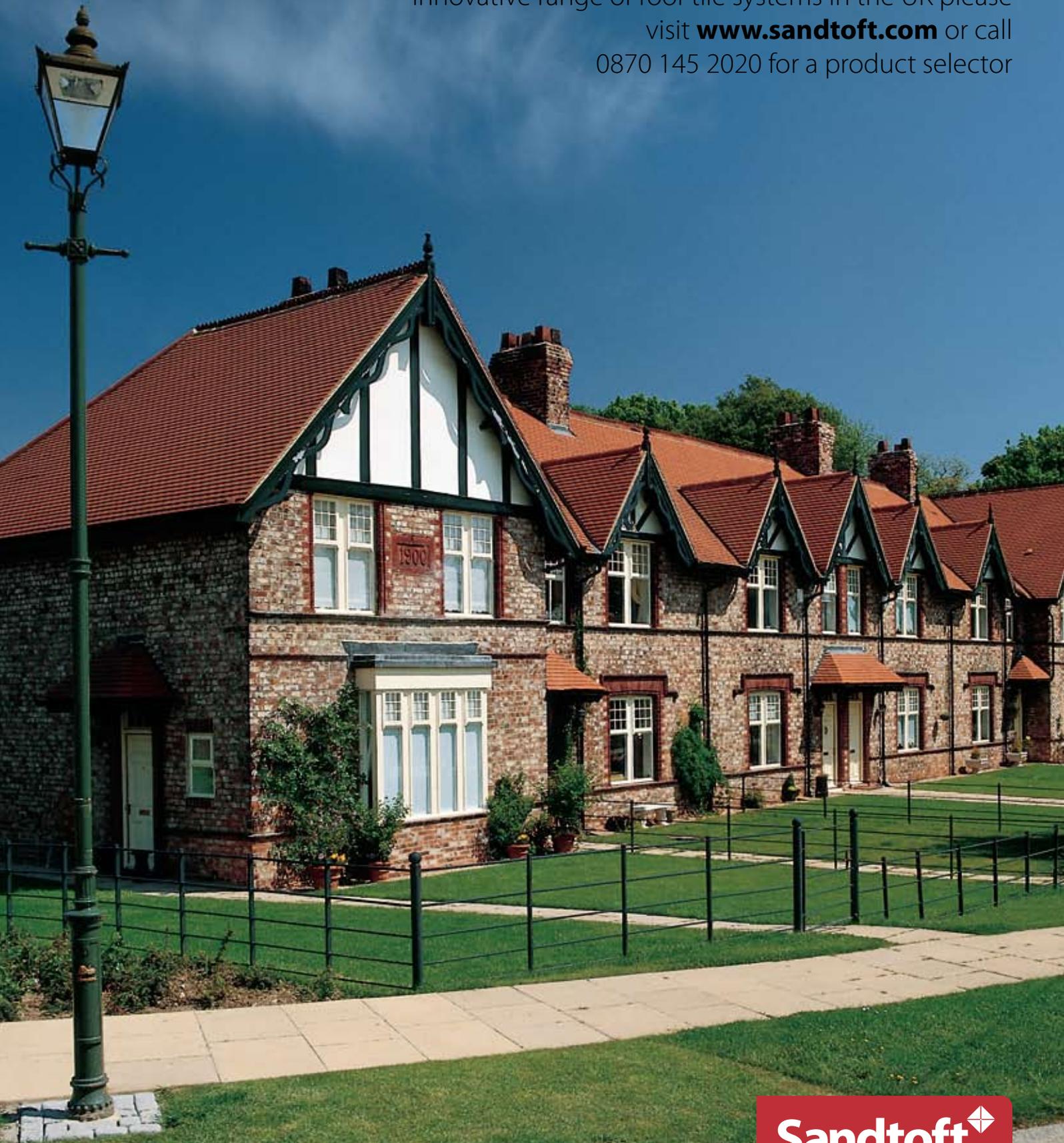
Installation

For detailed guidance on how to install Humber please download an Installation Guide from our website or contact Customer Support on 0870 145 2020.



Colour: Natural Red

For more information on the widest and most innovative range of roof tile systems in the UK please visit **www.sandtoft.com** or call 0870 145 2020 for a product selector



Sandtoft 

**CAMPAINING FOR
BEAUTIFUL ROOFS**

Tile colours shown in this brochure are as accurate as the printing process will allow.

Product samples are available upon request.

At Sandtoft we are continually innovating and improving our product range.

We reserve the right to change product specifications without notice.