

20/20

New Generation

Sandtoft

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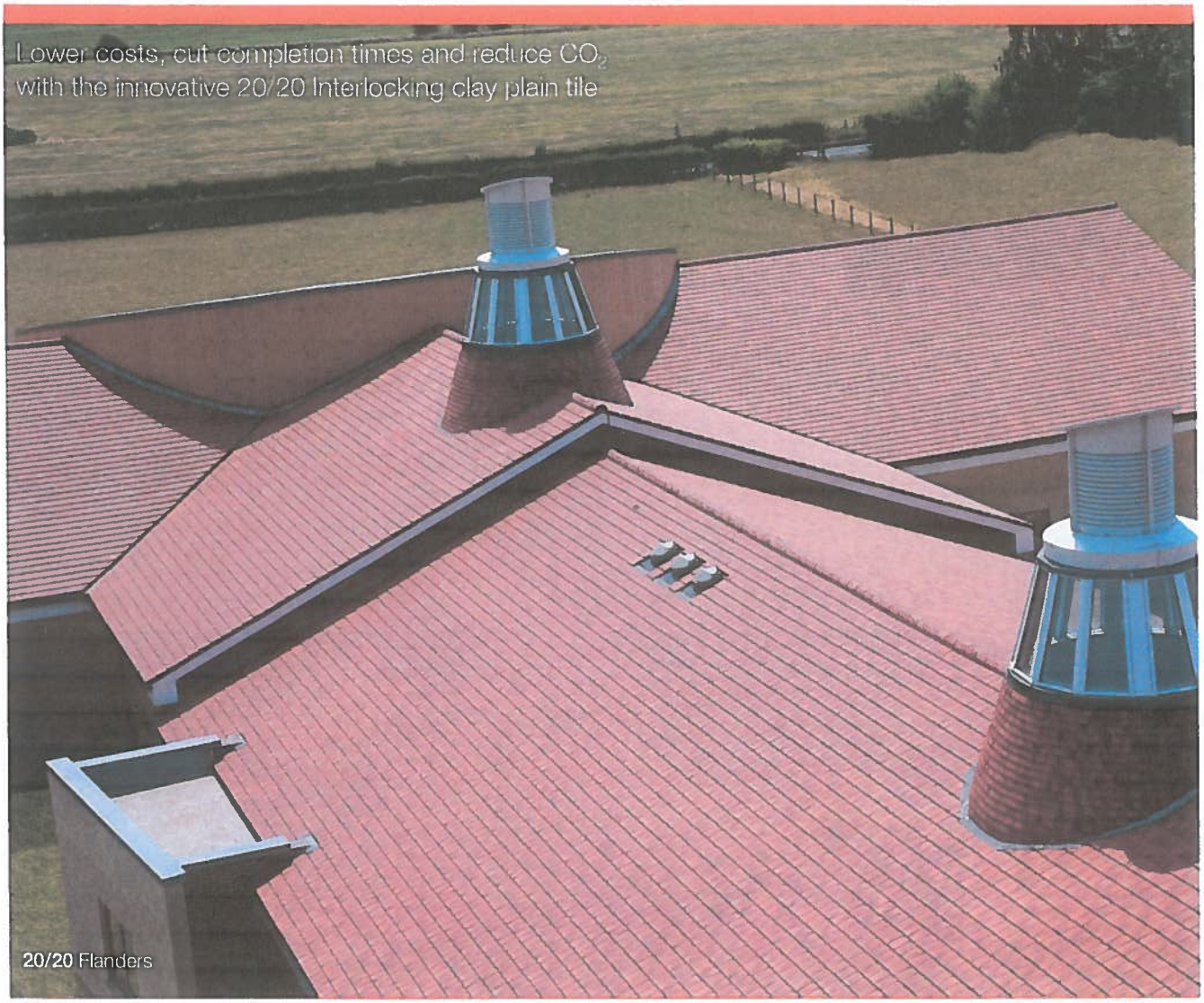
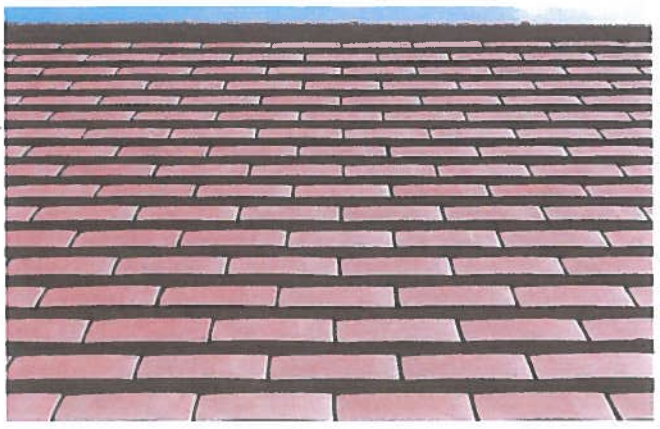


- New Generation interlocking clay tile with easy to lay open gauge
- Over 30% more cost effective than traditional plain tiles
- Reduces completion times by up to 30%
- Requires approx. 60% fewer battens
- Performs at pitches down to 15°
- Half the weight of concrete plain tiles and over 40% lighter than clay plain tiles
- Pressed from natural alluvial Humber clay and available in four permanent colours
- High performance weatherproof design developed through intensive wind tunnel testing
- Manufactured to Environmental Management Standard ISO 14001





The 20/20 has been designed to emulate traditional plain tiles, particularly when the roof is viewed from ground level.

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Fittings and accessories

Tile fittings:	- LH verge tile - Tile-and-a-half tiles (LH & RH verge)
Ridges:	- Duracoat half round - Clay half round
Mono ridges:	- Duracoat half round - Clay half round
Hips:	- Duracoat segmental - Clay third round
Valleys:	- Lead - Fibreglass
Clips:	- Tile, Eaves, Verge

Roofing systems

Dry roof systems:	- Ridge, Hip - Verge
Ventilation systems:	- Ridge - Eaves - Top abutment - Tile vent* - Gas terminals

*Concealed tile vent minimum pitch 22.5°

Tile fixing: Download zonal fixing table from www.sandtoft.com. Alternatively, use our Fixing SPEC service by completing your details online or calling 0844 9395 999.

A New Generation interlocking clay plain tile that makes a plain tile roof more affordable through an innovative design that reduces labour and material costs, and cuts completion times.

Colours



Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Therefore, before deciding on the batten gauge and cover width, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved.

Technical data

Minimum roof pitch*	15° at 100 mm headlap 22.5° at 75 mm headlap
Headlap (minimum)	75 mm
Headlap (maximum)	120 mm
Batten spacing at max. gauge	255 mm
Batten spacing at min. gauge	210 mm
Size of tile	330 x 226 mm
Covering capacity at max. gauge	22.7 tiles per m² at 100 mm headlap 20.5 tiles per m² at 75 mm headlap
Cover width	191 mm
Profile depth	16 mm
Hanging length	300 mm
Weight as laid	47.6 kg per m² at 100 mm headlap 43.1 kg per m² at 75 mm headlap
Weight per 1000	2.1 tonnes
Weight per tile	2.1 kg
Weight per pallet (inc. pallet)	1.0 tonnes
Quantity per pallet	480
Battens per m²	4.3 m at 100 mm headlap 3.9 m at 75 mm headlap
Batten size Up to 450 mm rafter centres Up to 600 mm rafter centres	 38 x 25 mm 50 x 25 mm
Nail size/type for tiles	45 x 3.35 mm aluminium ring shank clout head
Nail size/type for metal tile clips	55 x 3.35 mm aluminium ring shank clout head
Nail size/type for plastic tile clips	55 x 3.35 mm aluminium ring shank clout head

Note: Unless otherwise stated, data is based on tiles laid at minimum headlap.

*Rafter length restrictions apply at minimum roof pitch. Concealed 20/20 ventilators must not be used on roof pitches below 22.5°. A low pitch version is available. Please contact Technical Services for further information.

Doors, Windows & Rooflights:

4.1.7 The new extension will incorporate:

- **Doors**: 4 No. leaves of fully glazed sliding/folding doors in painted timber frames. Alternatively, slimline powder coated metal framed glazed doors may be considered. The doors will provide a generous opening between the extension and the garden to allow unobstructed views and flow between the spaces when open, and light and views when closed.

- **Windows:** A smaller kitchen window is proposed located centrally to the kitchen on plan and which will also approximately align with the centre of the corridor linking the Hall, thus providing views straight through to the garden from the Hall.

- **Rooflights:** 4 No. large glazed rooflights will be aligned elevationally on the sliding/folding doors. The rooflights may be openable, subject to the applicants' choice and will provide generous levels of daylight and afternoon sunlight, penetrating into both the extension and into the existing rear dining room. Although the new extension is not a conservatory, the extent of rooflights will provide high levels of daylight and sunlight and give the feeling of a conservatory garden room. Additionally, a matching openable rooflight will be located over the kitchen and centred on the kitchen window to the same overall dimensions as the other four rooflights.

- **General:** Although the existing windows comprise small panes with heavy timber glazing bars, the proposed windows and doors, whilst respecting the existing forms, seek to have clean and clear glazing to take advantage of the garden views.

Materials:

4.1.8

- **Roof tiles:** The tiled roof over the existing extension comprises traditional plain clay tiles. However, the roof pitch is approximately 22°, which is significantly below the 35° required under current Building Standards and Regulations for a plain clay tiled roof.
  Although it is proposed to marginally raise the level of the new roof (see 4.1.4 above), it is intended that the existing pitch will be maintained. Consequently to satisfy Building Standards and Regulations, it is proposed to utilise a new range of interlocking plain clay tiles in lieu of traditional tiles, which enables lower pitches to be provided but still meet the requirements of the Regulations. The appearance will be similar to traditional tiling, but the choice of tile will be limited to the ranges available. Product data sheets are attached in Appendix 1 for information.

- **Brickwork:** New yellow stock facing brickwork to match the existing rear wall of the main house will be proposed. The sizes however will be modern 215 x 102.5 x 65mm instead of the existing slightly larger Imperial sizes and will be laid in stretcher course and not in Flemish bond. Mortar will be in a sand:cement:lime mix.

- **Flashings & RW Goods:** Flashings will be in lead. Rainwater gutters and downpipes will be in black plastic. Eaves fascia will be a painted timber board.

4.2 **Rear Rooflight:** The existing modern rooflight over the stairs in the rear roof pitch is small and provides inadequate light levels to the stairs. It is therefore proposed to replace this with a new larger modern rooflight centred over the stairs.