



Plain Tile Range

20/20 Interlocking Clay Plain Tile

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.

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 m ² at 100 mm headlap 20.5 tiles per m ² at 75 mm headlap
Cover width	191 mm
Profile depth	16 mm
Hanging length	300 mm
Weight as laid	47.6 kg per m ² at 110 mm headlap 43.1 kg per m ² 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 m ²	4.3 m at 100 mm headlap 3.9 m at 75 mm headlap
Batten size	
Up to 450 mm rafter centres	38 x 25 mm
Up to 600 mm rafter centres	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.

Colours



65 Natural Red



69 Tuscan



66 Flanders



68 Antique Slate

Fittings and accessories

Tile fittings:	- LH verge tile - Tile-and-a-half tiles (LH & RH verge)
Ridges:	- Duracoat half road - Clay half round
Mono ridges:	- Duracoat half road - Clay half round
Hips:	- Duracoat segmental - Clay third round
Valleys:	- Lead - Fibreglass
Clips:	- Tile, Eaves, Verge
Roofing systems	
Dry roof system:	- Ridge, Hip - Verge (Clay and plastic available)
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 9695 999.

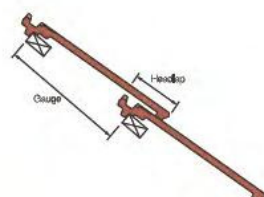
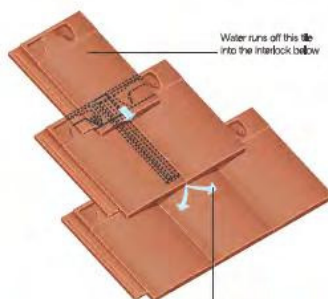
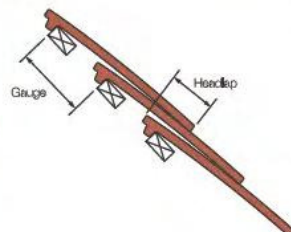
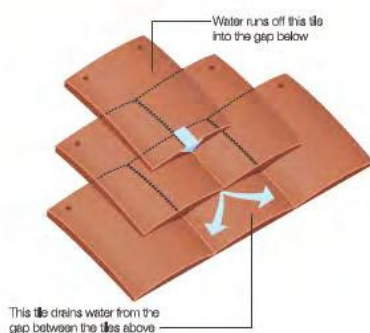
Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Therefore, before deciding on the batten gauge and cover width, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved.



Traditional plain tiles

Traditional double lap plain tiles are one of the oldest forms of roof covering in the UK. The term 'double lap' is applied to the way that the plain tiles are laid on the roof to create an effective barrier to water. Plain tiles like slates are uniform in shape and have no side interlocks, allowing the water to enter the gap between the tiles.

To drain this water away safely there must be another tile beneath each joint. This means that at any point on the roof there is at least a double layer of tiles, hence the term 'double lap' – at the headlap there are actually three layers of tiles (see opposite)



The 20/20 interlocking system

By adding features to the plain tile form, such as side interlocks and drainage channels it is possible to prevent the water from falling between the tiles at the side joint and instead carry it away to the tile below. This means that it is not necessary to have a double layer of tiles, which dramatically reduces the number of tiles required and the weight on the roof. 20/20 is half the weight of concrete plain tiles and over 40 per cent lighter than clay plain tiles.

Installing fewer tiles means less material and labour is required per roof and allows completion times and installation costs to be reduced.

The interlocking system also provides a much greater degree of control over wind and water ingress and this enhances performance. As a result 20/20 can be used on roof pitches as low as 15°.