Danum TLE

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Product Technical Information Sheet

Material	Concrete
Minimum roof pitch*	17.5° at 100mm headlap 22.5° at 75mm headlap
Headlap (minimum)	75mm
Headlap (maximum)	120mm
Batten spacing at maximum gauge	345mm
Batten spacing of minimum gauge	300mm
Size of tile	420 x 334mm
Covering capacity	10.3 tiles per m² at 100mm headlap 9.6 tiles per m² at 75mm headlap
Cover width	304mm
Profile depth	24mm
Hanging length	400mm
Weight as laid	54.6kg per m² at 100mm headlap 50.9kg per m² at 75mm headlap
Weight per 1000 (incl pallet & packaging)	5.459 tonnes
Weight per tile	5.3kg
Weight per pallet (incl pallet & packaging)	1.08 tonnes
Bond	Cross / Broken
Quantity per pallet	198
Band quantity	33
Battens per m²	3.2m at 100mm headlap 2.6m at 75mm headlap
Batten size - up to 450 mm rafter centres	38 x 25mm
Batten size - up to 600 mm rafter centres	50 x 25mm
Nail size/type for tiles	50 x 3.35mm aluminium ring shank clout head
Nail size/type for tile clips	Nail free clip

Colours



Dark Grey



Rustic



Terracotta Red



Light Grey



Brown

Unless otherwise stated, data is based on the tiles laid at minimum headlap. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved.

*For projects where the rafters are below 22.5 degrees the roof substructure must be installed in accordance with the Sandtoft low pitch installation guide. Rafter length restrictions apply at minimum roof pitch.

Tile Fixing - Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these Standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online tool at **www.all4roof.co.uk**

Product specification is subject to change and will be updated accordingly.

e. Roof enquiries

t. 0333 3050572

w. wienerberger.co.uk

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Caldera Red Multi

Product Technical Information Sheet	
Wienerberger Code	24311330
Production Plant	Hartlebury
Manufacture	Extruded Wirecut
Configuration	Vertically perforated unit
Colour	Red
Appearance	Rolled
Work Size (mm)	215 x 102.5 x 65
Pack Quantity	430
Individual Dry Brick Weight (kg)	1.66



Technical Properties to BS EN 771-1	
Size Tolerance (Mean/Range)	T2/R1
Percentage of Voids / Volume of Frogs	41
Gross Dry Density (kg/m3 /Tolerance)	1150(D1)
Compressive Strength (N/mm^2)	30
Thermal Conductivity (W/(m·K)) $\lambda_{10,dry,unit}$ value (EN 1745 tabulated: S1)	P=90% 0.6
Durability Designation	F2
Water Absorption (%)	15
Initial Rate of Water Absorption ($kg/(m^2 \cdot min)$)	Min 0.3 Max 2
Active Soluble Salts	S2
Reaction to Fire	A1

Technical data correct at time of issue. Individual dry brick weights can vary and are for guidance only. Any questions regarding this data should be referred to the wienerberger Technical Department. Due to the limitations of screen and print colour representation of product images it is advised that brick samples are viewed prior to ordering.

e. Wall and Landscaping enquiries

t. 0161 491 8200

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