

# Claret water-permeable clay pavers

## VANDE MOORTELT H2O NATURAL CLAY PAVING

The pavement (the whole of the paving including clay pavers, laying bed, sub-base layer and any sub-foundations) has a surface permeability of  $> 5.4 \cdot 10^{-5}$  m/s.

## COLOUR

Plain red-brown

## Product description

The bricks are formed individually in the sanded mould to a solid mass, pressed from clay of alluvial origin from an area located in the Scheldt basin and fired in a tunnel oven at a temperature of approximately 1180°C. On the narrow side the bricks have an sanded surface structure.

## TECHNICAL CHARACTERISTICS

The paving is laid in fired clay bricks of Belgian origin, quality class A, carrying the Benor mark, the CE mark and UKCA mark.

### CE label according to EN 1344 : 2013 / AC : 2015

Manufacturing dimensions (L x W x H) : \*210x50x103 mm on demand for projects  $> 2000 \text{ m}^2$

Quantity /  $\text{m}^2$  with a traditional joint : ca. 91

Manufacturing dimensions (L x W x H) : \*210x67x103 mm on demand for projects  $> 2000 \text{ m}^2$

Quantity /  $\text{m}^2$  with a traditional joint : ca. 68

## PHYSICAL AND MECHANICAL PROPERTIES ACCORDING TO EN 1344: 2013 / AC: 2015

Aspect	Class	Mean	Individual
Water absorption NBN EN771	Class W3	max 3%	max 4%
Transverse breaking load NBN EN1344	Class T4	min 80 N/mm	min 64 N/mm
Abrasion resistance NBN EN1344	Class A3	max 450 $\text{mm}^3$	max 500 $\text{mm}^3$
Frost resistance NBN EN1344	Class FP100	freeze/thaw resistant	freeze/thaw resistant
Size tolerance NBN EN1344	Class R1	$\pm 0,4 \sqrt{d}$	$0,6 \sqrt{d}$ (range)
Wet skid resistance NBN EN1344	Class U3	$>55$	
Acid resistance NBN EN1344	Klasse C	$< 7\%$	$< 7\%$

## LAYING

The clay pavers are laid on edge. In the case of water-permeable paving, the slope can be restricted to 1% in order to allow infiltration. The clay pavers are to be laid loosely against each other with a minimum joint (2 to 3 mm), if necessary with a slightly wider joint in places in order to keep to the bond.

Before vibrating the paving, a suitable water-permeable jointing material with a permeability of  $> 5.4 \cdot 10^{-5}$  m/s is embedded between the clay pavers. Check the filter stability of the jointing sand in respect of the paving layer beforehand. This sand is applied for the first time until the clay pavers are stable and seated firmly so that they can no longer press against each other during vibration. During vibration, a rubber mat is placed underneath the vibration plate in order to prevent damage to the clay pavers. After vibration, jointing sand should be spread over the whole surface again and swept in several times. Repeat the procedure until the clay pavers can no longer move and the joint is completely filled. Only then is the paved surface ready for use.

## APPLICATION

The use of water-permeable clay pavers is however restricted to OCW traffic categories II, III and IV. In practice, a maximum of 100 trucks ( $> 3.5$  tons) and 5,000 light vehicles ( $< 3.5$  tons) per day is expected.

Due to the relatively restricted joint width, the paving remains easy to walk on and drive on, and a normal level of comfort is maintained in terms of use and noise. The clay paver also retains its normal strength and resistance to acids and de-icing salts.

