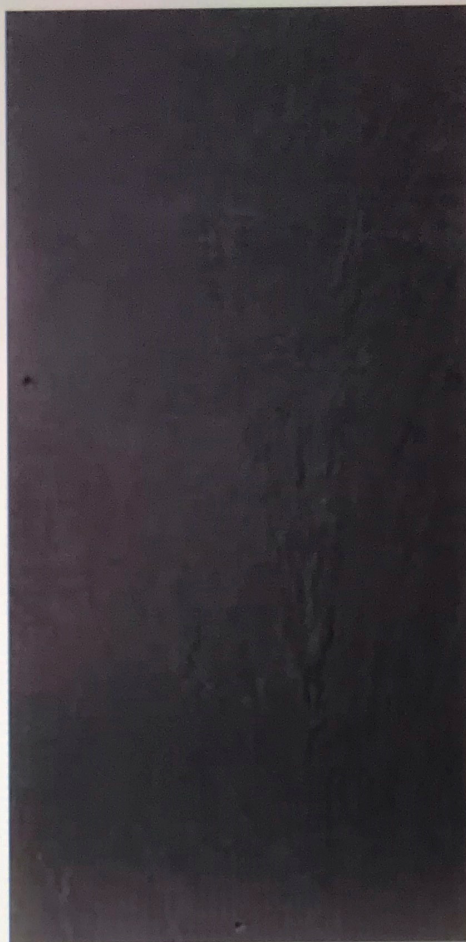




Blue / Black



Graphite

Performance

Compatibility

Zeeland slates are compatible with most common building materials, except those vulnerable to alkaline attack. When materials such as aluminium are used as flashings or gutters they should be protected and maintained with bituminous paint if they will be subject to water run-off from the slates.

Tolerances

Zeeland slates are made to the following dimensional tolerances in accordance with BS EN 492: 2004.

Length or width: $\pm 3.0\text{mm}$ Thickness: $4\text{mm} + 1.0\text{mm}, - 0.4\text{mm}$

Strength

Zeeland slates exceed the requirements of Class B (the highest) of BS EN 492: 2004 giving an average bending moment greater than 50 Nm/m.

Density

Zeeland slates have an average density of 1850 kg/m³ when tested to BS EN 492: 2004 section 7.3.1.

Fire

Zeeland slates achieve the following ratings:

BS 476: Part 2: 1989 and BS 476: Part 7: 1987. Fire Propagation Index (I) of 0.9, a Sub index (ii) of 0.3 and a Class I surface.

Class 0 surface as defined in the various national Building Regulations.

BS 476: Part 3 1958 EXT. SAA

BS 476: Part 3 1975 Class P60

Frost

Zeeland slates show satisfactory frost resistance after 100 freeze/thaw cycles and satisfy the requirements of BS EN 492: 2004 section 7.4.1.

Thermal

The coefficient of linear expansion of Zeeland slates is approximately $8 \times 10^{-6} \text{ mm/}^\circ\text{C}$. This is equivalent to an expansion of 0.08mm/m for a 10°C temperature change. Thermal conductivity (k value) is 0.35W/m²°C.

Effects of chemicals

During tests Zeeland slates have been found to have a good resistance to chemical attack, however it should be noted that prolonged exposure will cause surface degradation. In areas where this may be excessive please consult Cembrit Ltd. for further advice.

Biological

Zeeland slates are vermin and rot proof. The acrylic coating of the slates will reduce the potential growth of moss and lichen.