

## Titan Kerb Quadrant 45 Degree



Marshalls' Titan Kerb is a high containment solution designed to keep vehicles on their intended path, and to prevent the overrun of vulnerable areas adjacent to the carriageway via a physical and visual barrier.

The 400mm high Titan Kerb not only offers clear visual delineation between trafficked and non-trafficked areas, it also ensures that any errant traffic is safely redirected back onto its intended path. The product is an essential tool for designers, acting as a passive system that protects vulnerable installations like pedestrian refuges. The two-stage internal and external manufacture, available in a variety of face lengths, can be combined to meet any specification, and is perfect for protecting potentially vulnerable road installations such as barriers, gates and signage. The kerb system has proven efficacy in various projects and installations across the UK. Marshalls can help advise you on the best placement and optimum conditions for installation.

DESCRIPTION	
Appearance	Solid unit with profiled surface
Manufacturing Process	Hydraulically pressed concrete
Base Raw Material	Concrete
Governing Manufacturing Standards	All data where relevant to be established in accordance with BS EN 1340 : 2003
NBS Specification	Q10 112,Q10 10,Q10 510



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## PHYSICAL PROPERTIES

Tolerances on Work Dimensions (mm)	Width $\pm 3$ mm, height $\pm 3$ mm, length $\pm 3$ mm
Abrasion Resistance (mm)	$\leq 23$ mm (Wide Wheel Abrasion Test)
Durability (Freeze-thaw)	$\leq 1.0$ kg/m <sup>2</sup> as a mean with no individual value $> 1.5$ kg/m <sup>2</sup>
Material Density	2300 kg/m <sup>3</sup> (typically)
Slip/Skid Resistance (polished)	Mean polished skid resistance value (PSRV) : $> 45$
Slip/Skid Resistance (unpolished)	Mean unpolished skid resistance value (USRV) : $> 45$
Thermal Conductivity (K value)	Design data as defined to BS EN 13369: 2013
Bending Strength MPa	Characteristic bending strength of 3.5 MPa with no individual result less than 2.8 MPa

## SPECIFICATION

Approx unit weight (kg)	76
Emission of Asbestos	No content
External Fire Performance	Deemed to satisfy. See commission decision 2000/553/EUC
Reaction to fire	Class A1, see commission decision 2000/605/EC

## APPLICATION

Suitability	Laid in accordance with BS 7533-6 : 1999
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## FURTHER INFORMATION

Cleaning & Maintenance	Available on request
Efflorescence	Any product containing cement during its early life may exhibit a temporary white discolouration known as efflorescence. This is not a product fault and will gradually disappear with exposure to natural weathering and trafficking
Weathering	It should be appreciated that with all products weathering and site conditions can cause shade variation to appear across the surface of individual units. This does not in any way affect the performance of the units and any such variation will diminish over a period of time as the product matures.
Product Evolution	The evolution of new product design is continuous and information is subject to change without notice. Customers should check with the supplier to ensure that they have the latest details. Marshalls reserve the right to amend the technical information as deemed necessary and in accordance with the relevant national and international standards without notice
Contact Us	For technical information on the design, specification and construction when utilising the product, contact Group Technical Services on 0370 411 2233

