

## Birco 200

Date Created: 07/02/19



marshalls birco  
200

Manufactured from high-quality pre-cast concrete, Marshalls' Birco 200 is a medium-capacity linear drainage system. It provides a flow rate of 88-131 litres per second (at a 1 in 40 gradient) and is also available with inbuilt falls, which improve flow rates to increase drainage discharge capacity.

Heavy-grade rolled galvanised steel angles cast into the top of the channel walls add to the durability of the product, providing superior strength in heavy loading applications.

With a loading capacity of up to F900 depending on the grating system installed, Birco 200 is suitable for use in a range of projects where heavy vehicle traffic is anticipated.

There's also a choice of grating options, dependent on your loading requirements and the look your project requires. These are secured by stainless steel bolts fitted into threaded steel sockets cast into the channel wall, providing additional durability.

### DESCRIPTION

Manufacturing Process	Semi dry pressed & vibrated concrete	
Base Raw Material	Concrete	
Governing Manufacturing Standards	All data where relevant to be established in accordance with BS EN 1433 : 2002	
CE Marking/DOP	<a href="https://www.marshalls.co.uk/dop">https://www.marshalls.co.uk/dop</a>	
NBS Specification	Q10 115	Q10 180



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## PHYSICAL PROPERTIES

Work Dimensions (mm)	1000 x 330 x 310
	1000 x 330 x 335
	1000 x 330 x 360
	1000 x 330 x 385
Apparent Density	2300 kg/m <sup>3</sup> (typically)
Water Absorption (%)	6.5% maximum
Water Tightness	Meets the requirements of the standard.

## SPECIFICATION

Approx unit weight (kg)	115 to 153 kg (excluding grate)
Emission of Asbestos	No content
Reaction to fire	Class A1, see commission decision 2000/605/EC

## APPLICATION

Application	Suitable for all locations as described in BS EN 1433 : 2002 for load classification F900
Suitability	With a loading capacity of up to F900 depending on the grating system installed, Birco 200 is suitable for use in a range of projects where heavy vehicle traffic is anticipated
Restrictions	Not suitable for use in the main carriageway of a road or motorway cross-over
Loading Classification	F900

## PERFORMANCE

Discharge of cross section	36710 mm <sup>2</sup> - 51710 mm <sup>2</sup>
Protection of steel	Thickness of galvanising is 70 microns
Sealing of joints	Completed by the use of M-Seal or M-Flex into rebate
Security of Grating	By 8no M12 stainless steel bolts per channel. Bolts into the shoulder of the channel

## SUPPLY

Units Per Pack	Pallet packed for individual contracts
Av. pack weight (kg)	Maximum 1.5 tonnes
Packaging	Banded & shrink-wrapped onto non-returnable pallets

## SUSTAINABILITY

Carbon Footprint	Available on Request
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## FURTHER INFORMATION

Cleaning & Maintenance	Cleaning & maintenance details are 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
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 the Technical Advisory Services Department on 0370 411 2233

GRATING	LOADING	LENGTH	WIDTH	UNIT WEIGHT	ITEM CODE
200 CI Grate 500/18 F +	E600	500	287	12.5	*DR2754100

\* Products with an asterisk against the item code are available ex-stock  
Products without an asterisk against the item code are manufactured to order



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