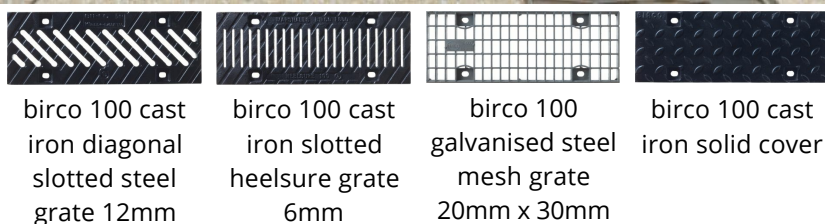


Birco 100

Date Created: 07/02/19



Marshall's Birco 100 is a low-capacity linear drainage system suitable for a range of purposes across civic, commercial, rail and industrial projects.

Available in a variety of loading ratings up to F900, Birco 100 is made from high-quality pre-cast concrete, with heavy-grade rolled galvanised steel angles cast into the top of the channel walls to ensure strength in heavy loading applications. This ensures ultimate reliability and durability, whether it's to be deployed in areas of light or heavy traffic.

As well as functionality, Birco 100 offers a pleasing aesthetic, combining a robust concrete channel with a choice of cast iron, stainless steel or galvanised grating in various patterns. Grates are secured by stainless steel bolts that are anchored into threaded steel sockets, and cast into the channel wall, for extra durability.

Marshall's Birco 100 comes in a range of lengths and depths, with additional accessories allowing any project's drainage needs to be met. It can be used alongside most landscaping surfaces, including paving, and can be used in the design of a SuDS for impermeable surfaces.

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	https://www.marshalls.co.uk/dop
NBS Specification	Q10 180

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PHYSICAL PROPERTIES

Work Dimensions (mm)	1000/500 x 200 x 180 1000/500 x 200 x 230 1000/500 x 200 x 280 1000/500 x 200 x 330 1000/500 x 200 x 380
Apparent Density	2300 kg/m ³ (typically)
Water Absorption (%)	Meets the requirement for Grade 2
Water Tightness	Meets the requirements of the standard.

SPECIFICATION

Approx unit weight (kg)	54 to 102 (excluding top units)
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	A variety of loadings make Birco 100 suitable for light to heavy trafficking so suitable for a variety of projects including civic, commercial, rail and industrial applications
Restrictions	Not suitable for use in the main carriageway of a road or motorway cross-over
Loading Classification	E600 F900

PERFORMANCE

Discharge of cross section	9000 mm ² - 29000 mm ²
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. Marshall's 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
100 CI Grate Diagonal slot E+	E600	500	187	6.2	DR1150200
12 Slotted Cast Iron Grate	E600	500	187	6.4	DR1151250
12 Slotted Cast Iron Grate	F900	500	187	7.6	DR1151300
6 Heelsure Slotted Cast Iron Grate	E600	500	187	6.4	*DR1151350
Solid Cast Iron Grate	E600	500	187	7.5	DR1152500
30x20 Mesh Galvanised Steel Grate	E600	500	187	7.2	DR1152850

* 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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