

Birco 150

Date Created: 07/02/19



birco 150 cast iron slotted grate 12mm - c250 e600 and f900



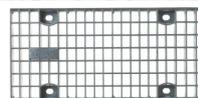
birco 150 cast iron solid cover



birco 150 cast iron heelsure grate 6mm



birco 150 galvanised cast iron slotted grate 12mm



birco 150 galvanised steel mesh 20mm x 30mm

Offering an increased flow capacity over the Birco 100, the Birco 150 combines concrete channels with a diverse range of metal coverings to produce a linear drainage solution that is both effective and aesthetically pleasing.

The Birco 150's water drainage channels are constructed of a robust precast concrete to ensure reliable performance. The channel walls are also reinforced with heavy grade rolled galvanised steel angles cast into the top, increasing durability and ability to handle heavy loads.

With the correct grate application, the Birco 150 can achieve a load classification of F900, the highest possible rating, making it the perfect solution for rail, commercial and industrial projects. The grates are secured by bolting stainless steel bolts into the threaded steel sockets cast into the channel wall.

Birco 150 comes in a range of grate styles to complement any scheme. Choose from a Cast Iron Slotted Grate, Cast Iron Heelsure Grate, Galvanised Steel Mesh, Galvanised Cast Iron Slotted Grate and Cast Iron Solid Cover.

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 250 x 230
	1000/500 x 250 x 280
	1000/500 x 250 x 330
	1000/500 x 250 x 380
	1000 x 250 x 430
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)	76 to 124 kg (excluding grating)
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	Birco 150 is available up to the highest loading classification making it suitable for a variety of 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	16000 mm ² - 46000 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. 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

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GRATING	LOADING	LENGTH	WIDTH	UNIT WEIGHT	ITEM CODE
12 Slotted Cast Iron Grate	E600	500	237	10.7	DR1952100
12 Slotted Cast Iron Grate	F900	500	237	12.4	DR1952200
Solid Cast Iron Grate	E600	500	237	11.0	DR1952300
6 Heelsure Slotted Cast Iron Grate	E600	500	237	10.5	*DR1952400
6 Heelsure Slotted Powder Coated Cast Iron Grate	E600	500	237	10.5	DR1957500
12 Slotted Galvanised Cast Iron Grate	E600	500	237	10.5	DR1970300
20x30 Mesh Galvanised Steel Grate	E600	1000	237	14.1	DR1972800
20x30 Mesh Galvanised Steel Grate	E600	500	237	7.2	DR1972900

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

