



tree protection



tree protection

Broxap's range of tree grilles and guards provide a stylish solution to the protection of trees and saplings. Systems are available in various sizes to suit each application. Certain tree grilles can be modified to include irrigation or lighting holes.



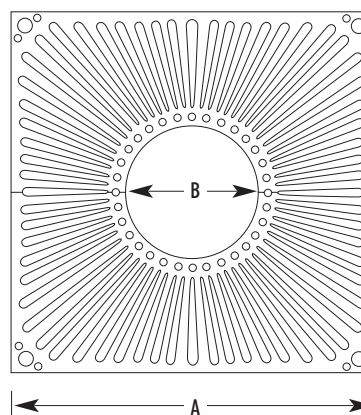
Sunburst Square Cast Iron Tree Grille



Gretna Village Outlet, Gretna.



Gretna Village Outlet, Gretna.



Code	BX 1211-STD	BX 431-3-STD	BX 431-4-STD	BX 431-5-STD
External 'A' sq/dia	900□+	1000□+	1200□+	1400□+
Aperture 'B' dia	450 dia.	450 dia.	500 dia.	550 dia.
Weight	48kg	68kg	100kg	154k
Cast Iron Grille	£189.00	£219.00	£229.00	£261.00
Mild Steel Frame	£129.00	£132.00	£139.00	£144.00
Security Clamps	£14.00	£14.00	£14.00	£28.00
TOTAL PER SET	£332.00	£365.00	£382.00	£433.00

* includes mild steel frame dimensions also.

tree protection: cast iron tree grilles



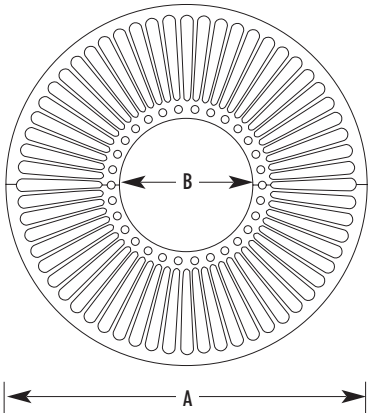
Sunburst Round Cast Iron Tree Grille



Gretna Village Outlet, Gretna.



Fender Lane, Moreton, Merseyside.



Code	BX 1201-STD	BX 401-4
External 'A' sq/dia	1200 dia.*	1520 dia.*
Aperture 'B' dia	500 dia.	575 dia.
Weight	60kg	140kg
Cast Iron Grille	£189.00	£375.00
Mild Steel Frame	£132.00	£152.00
Security Clamps	£14.00	£28.00
TOTAL PER SET	£335.00	£555.00

* includes mild steel frame dimensions also.

email: sales@broxap.com website: www.broxap.com

tree protection: cast iron tree grilles

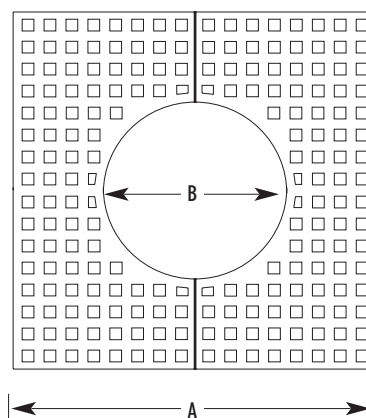
Riviere Square Hole Cast Iron Tree Grille



Salford Quays, Manchester.



Homebase, Southam Road, Banbury.



Code	BX 434-1-STD	BX 434-2-STD	BX 434-3-STD	BX 434-4-STD
External 'A' sq/dia	800□+	1000□+	1200□+	1400□+
Aperture 'B' dia	400 dia.	450 dia.	500 dia.	550 dia.
Weight	66kg	92kg	144kg	200kg
Cast Iron Grille	£199.00	£239.00	£257.00	£299.00
Mild Steel Frame	£129.00	£132.00	£139.00	£144.00
Security Clamps	£14.00	£14.00	£14.00	£28.00
TOTAL PER SET	£342.00	£385.00	£410.00	£471.00

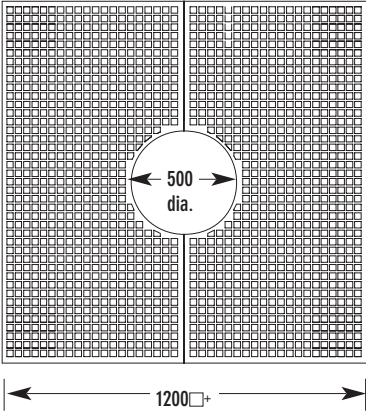
* includes mild steel frame dimensions also.

tree protection: cast iron tree grilles

BX 1215-STD Worcester Cast Iron Tree Grille



Clowes Street, Manchester.



Contemporary popular design tree grille.
Also available 1220mm square* with a 600 dia. centred aperture: BX 1215A.
Weight: 92kg

	Code	Price
Cast Iron Grille	BX 1215-STD	£246.00
Mild Steel Frame	BX14 1215-M-STD	£139.00
Security Clamps	BX14 1290-2	£14.00
TOTAL PER SET		£399.00

* includes mild steel frame dimensions also.

email: sales@broxap.com website: www.broxap.com

tree protection: cast iron tree grilles

BX 1207-STD Luton Cast Iron Tree Grille

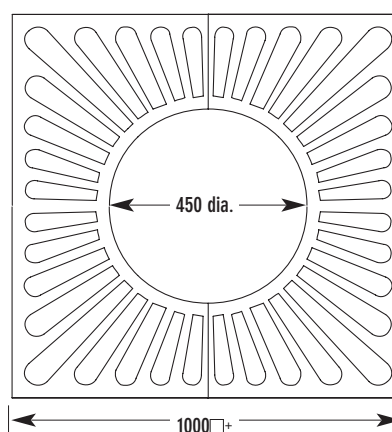


Thacker Drive, Lichfield.

Weight: 72kg



	Code	Price
Cast Iron Grille	BX 1207-STD	£192.00
Mild Steel Frame	BX14 1207-M-STD	£132.00
Security Clamps	BX14 1290-2	£14.00
	TOTAL PER SET	£338.00



* includes mild steel frame dimensions also.



£192.00 Price per single cast iron tree grille only.

BX 1234-STD Liverpool Cast Iron Tree Grille

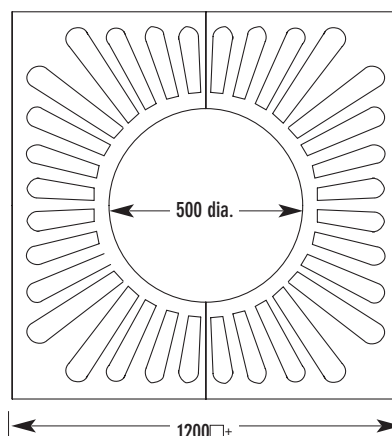


Wigan Royal Infirmary.

Weight: 98kg



	Code	Price
Cast Iron Grille	BX 1234-STD	£215.00
Mild Steel Frame	BX14 1234-M-STD	£139.00
Security Clamps	BX14 1290-2	£14.00
	TOTAL PER SET	£368.00



* includes mild steel frame dimensions also.



£215.00 Price per single cast iron tree grille only.

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telephone: 01782 564411 fax: 01782 565357/562546

tree protection: cast iron tree grilles

BX 1238-STD Lea Cast Iron Tree Grille

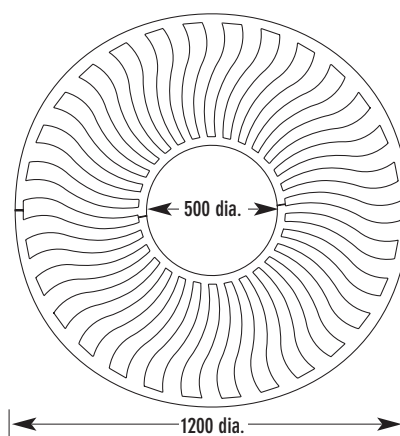


Church Street, Nuneaton.

Weight: 86kg



	Code	Price
Cast Iron Grille	BX 1238-STD	£215.00
Mild Steel Frame	BX14 1238-M-STD	£132.00
Security Clamps	BX14 1290-2	£14.00
	TOTAL PER SET	£361.00



* includes mild steel frame dimensions also.



£215.00 Price per single cast iron tree grille only.

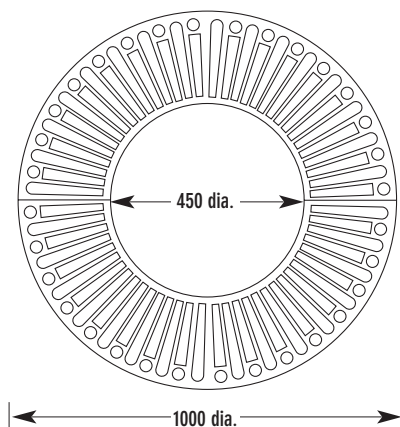
BX 402-2-STD Taverham Cast Iron Tree Grille



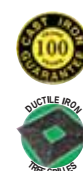
Weight: 48kg



	Code	Price
Cast Iron Grille	BX 402-2-STD	£185.00
Mild Steel Frame	BX14 402-2-M-STD	£129.00
Security Clamps	BX14 1290-2	£14.00
	TOTAL PER SET	£328.00



* includes mild steel frame dimensions also.



£185.00 Price per single cast iron tree grille only.

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tree protection: cast iron tree grilles

BX 1218 Rotherhithe Cast Iron Tree Grille

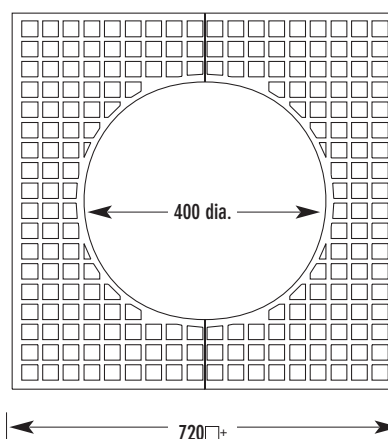


Tamworth, Staffordshire.

Weight: 48kg



	Code	Price
Cast Iron Grille	BX 1218	£249.00
Mild Steel Frame	BX14 1218-M	£124.00
Security Clamps	BX14 1290-2	£14.00
	TOTAL PER SET	£387.00



* includes mild steel frame dimensions also.



£249.00 Price per single cast iron tree grille only.

BX 1219-STD Tipton Cast Iron Tree Grille

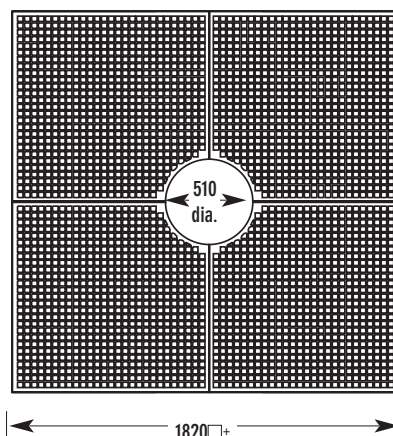


Stanley Road, Bootle, Merseyside.

Weight: 344kg



	Code	Price
Cast Iron Grille	BX 1219-STD	£446.00
Mild Steel Frame	BX14 1219-M-STD	£195.00
Security Clamps	BX14 1290-4	£28.00
	TOTAL PER SET	£669.00



* includes mild steel frame dimensions also.



£446.00 Price per single cast iron tree grille only.

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telephone: 01782 564411 fax: 01782 565357/562546

tree protection: cast iron tree grilles

BX 436-3-STD Kings Lynn Cast Iron Tree Grille



Stone Street, Dudley.

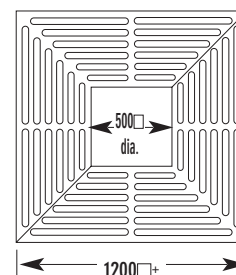
AVAILABLE FROM
STOCK

	Code	Price
Cast Iron Grille	BX 436-3-STD	£249.00
Mild Steel Frame	BX14 436-3-M-STD	£139.00
Security Clamps	BX14 1290-2	£14.00
	TOTAL PER SET	£402.00

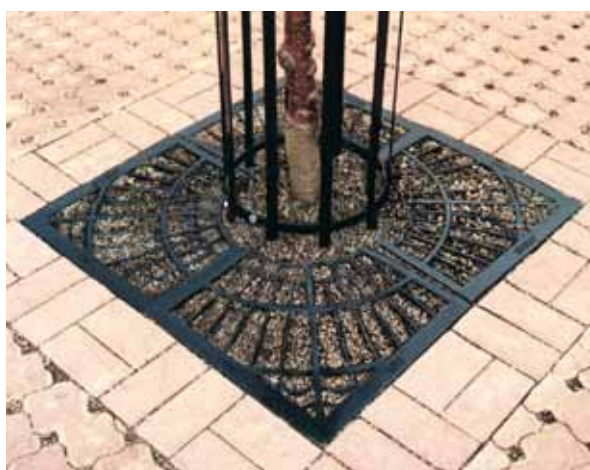
Weight: 124kg

* includes mild steel frame dimensions also.

£249.00 Price per single
cast iron tree grille only.



BX 1203-STD Calais Cast Iron Tree Grille



AVAILABLE FROM
STOCK

	Code	Price
Cast Iron Grille	BX 1203-STD	£150.00
Mild Steel Frame	BX14 1203-M-STD	£132.00
Security Clamps	BX14 1290-2	£14.00
	TOTAL PER SET	£296.00

Weight: 50kg

**END OF LINE
PRODUCT**

* includes mild steel frame dimensions also.

£150.00 Price per single
cast iron tree grille only.



BX 442-3-STD Limousin Cast Iron Tree Grille



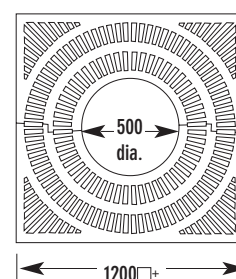
AVAILABLE FROM
STOCK

	Code	Price
Cast Iron Grille	BX 442-3-STD	£275.00
Mild Steel Frame	BX14 442-3-M-STD	£139.00
Security Clamps	BX14 1290-2	£14.00
	TOTAL PER SET	£428.00

Weight: 126kg

* includes mild steel frame dimensions also.

£275.00 Price per single
cast iron tree grille only.



email: sales@broxap.com website: www.broxap.com

tree protection: mild steel tree guards

BX14 1275 Poplar Mild Steel Tree Guard



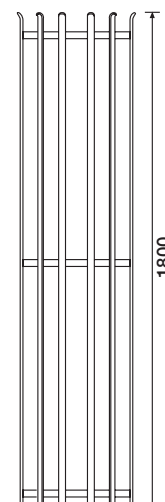
Lady Aylesford Avenue, Stanmore.

Mild steel circular tree guard.

Option	Price
Under 437 dia.	£158.00
Over 437 dia.	£173.00



Frederick Street, South Shields.



from **£158.00** Price per single mild steel tree guard.

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telephone: 01782 564411 fax: 01782 565357/562546

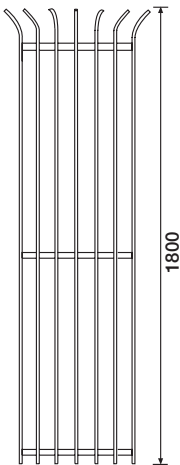
BX14 1274 Municipal Mild Steel Tree Guard



Southam Road, Banbury.

Mild steel circular tree guard with flared top.

Option	Price
Under 437 dia.	£172.00
Over 437 dia.	£182.00



from **£172.00** Price per single mild steel tree guard.

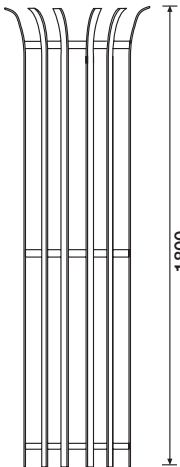
BX14 1276 Rural Mild Steel Tree Guard



Housing Development, Coventry.

Mild steel circular tree guard with flared top.

Option	Price
Under 437 dia.	£158.00
Over 437 dia.	£181.00



from **£158.00** Price per single mild steel tree guard.

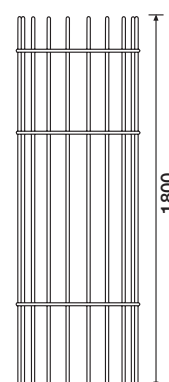
tree protection: mild steel tree guards

BX14 602 Standard Mild Steel Tree Guard



Tonge Old Road, Bolton.

Option	Price
Under 437 dia.	£188.00
Over 437 dia.	£265.00



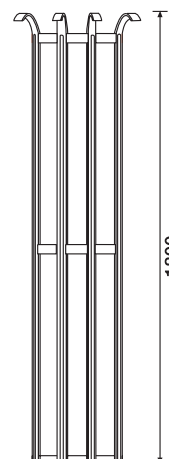
from **£188.00** Price per single mild steel tree guard.

BX14 1270 Alder Mild Steel Tree Guard



Mild steel circular tree guard with curved top and vertical bar embellishments.

Option	Price
Under 437 dia.	£174.00
Over 437 dia.	£228.00



from **£174.00** Price per single mild steel tree guard.

tree protection: mild steel and stainless steel tree guards

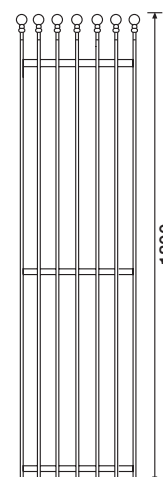
BX14 1289 Silver Birch Mild Steel Tree Guard



Cambria Street, Bolton.

Mild steel circular tree guard.

Option	Price
Under 437 dia.	£170.00
Over 437 dia.	£195.00



from **£170.00** Price per single mild steel tree guard.

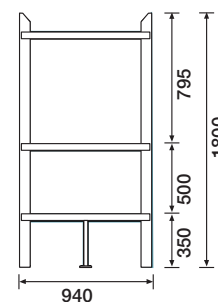
D300 MWH Object+Design Tree Guard



Stylish stainless steel tree guard to complement the D300 range of MWH Object+Design street furniture.



Shown with D300 MWH Object+Design slatted seat (see page 549).



£1485.00 Price per single stainless steel tree guard.

email: sales@broxap.com website: www.broxap.com

tree guards, grilles and frames

Broxap's tree protection range comprises of 2 main product groups, tree guards and tree grille and frame systems.

tree guards

Tree guards are manufactured from mild steel and form a protective cage around the trunk of the tree / sapling and are available in various diameters to suit the required application.

Tree guards may be used as a stand alone product and may be fixed directly into the ground with spiked legs. Alternatively, to provide added protection to the tree / sapling a tree guard may be used in conjunction with a Tree grille and frame in which case the tree guard is bolted directly to the tree frame.

All tree guards are galvanised to BS EN ISO 1461:1999 and powder coated in a range of BS or RAL Colours.

tree grilles

Tree grilles are manufactured from cast iron and are available in various designs and dimensions. The tree grille design allows for rain and irrigation water to pass through the grille and to the root of the tree. All tree grilles are supplied painted in a primer undercoat and a 2-pack acrylic topcoat in a range of BS or RAL colours to a paint thickness of approximately 100 microns. Tree grilles may also be supplied in a Waterside Paint Specification if required.

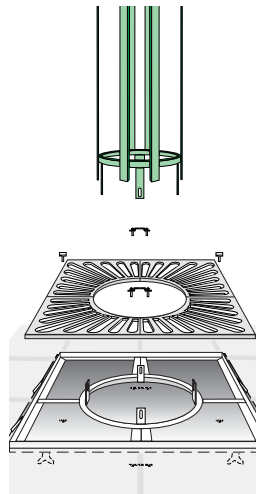
Tree grilles may also be supplied in a course paint system known as Dacmix. This option comprises of a two-pack epoxy finish into which an aggregate is added. This system provides a less slippery surface when wet.



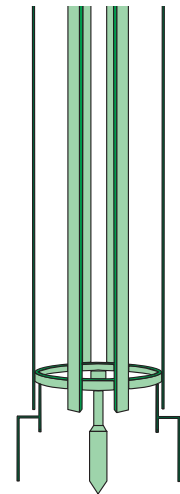
1. Lugs to accept guard.



2. Guard bolted securely to frame.



Tree protection system showing tree guard fitted with bolt and frame fixings.



Tree guard supplied with spiked leg fixing.



Complete tree protection system comprising tree guard, tree grille and frame.

frames, central supports and clamps

tree frames

Tree frames are manufactured from mild steel and are used to support the tree grille to prevent settlement between the tree grille segments. Tree frames are available in various sizes to suit each type of tree grille. The frame is placed on a concrete foundation in order to provide adequate support.

Frames may also be manufactured with fixings to allow for attachment of a tree guard.

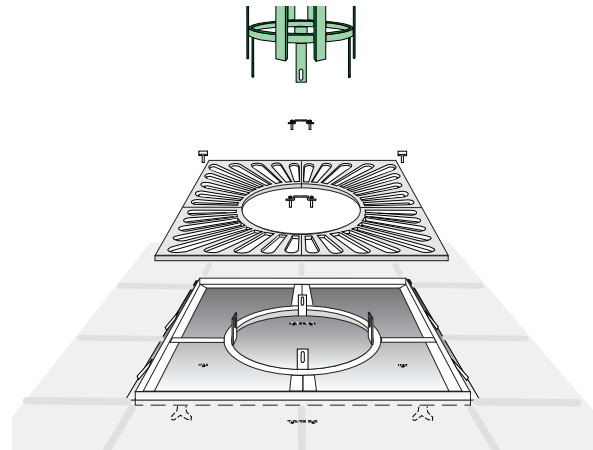
Broxap offer both medium and heavy duty tree frames. Medium duty frames satisfy most normal requirements whilst heavy duty frames offer increased support for areas where the tree grilles may be exposed to heavier loading applications.

Tree Frames may also be supplied with removable central supports for use where the tree / sapling has not yet been planted but installation of the tree protection system is required.

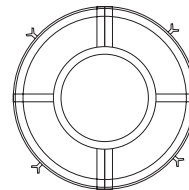
All tree frames are galvanized to BS EN ISO 1461:1999 and powder coated in a range of BS or RAL colours.

anti-theft clamps

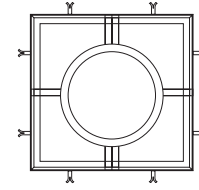
Broxap's standard anti-theft clamps prevent unauthorised removal of grille segments and help to ensure correct alignment of individual pieces.



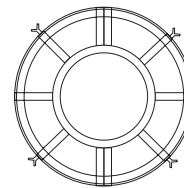
Tree frames.



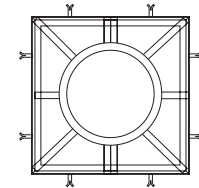
Medium duty frame - round



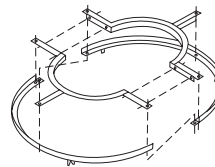
Medium duty frame - square



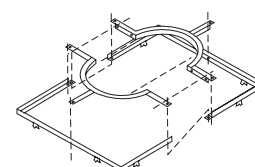
Heavy duty frame - round



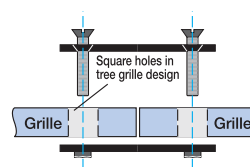
Heavy duty frame - square



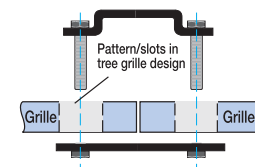
Removable central supports - round



Removable central supports - square



CLAMP TYPE A
(Square hole design)



CLAMP TYPE B
(all other designs)



Complete tree protection system comprising tree guard, tree grille and frame.

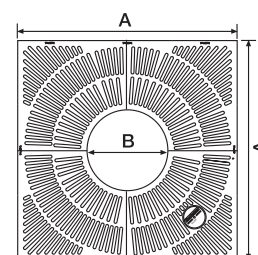
15kN Buderus Sunbeam Cast Iron Tree Grille - Square



Church Street, Cheltenham.

15kN loadings. Buderus Sunbeam only. Grilles are cast 40mm thick around the rims and 12mm across the slotted plate.

All Buderus system grilles are supplied with a load-bearing frame to suit. For an exact specification see pricing chart adjacent to the required tree grille.



from **£347.00** Price per single cast iron tree grille only.

CODE	EXTERNAL DIMENSION A	INTERNAL DIMENSION B	WEIGHT	GRILLE	IRON FRAME	or	STEEL FRAME
BX02 4551 10	1900 □	1100 dia.	303kg	£657.00	£381.00	or	£499.00
BX02 4552 10	1500 □	700 dia.	207kg	£475.00	£345.00	or	£424.00
BX02 4556 10	1270 □	600 dia.	161kg	£399.00	£284.00	or	£352.00
BX02 4550 70	900 □	600 dia.	76kg	£347.00	£256.00	or	£330.00

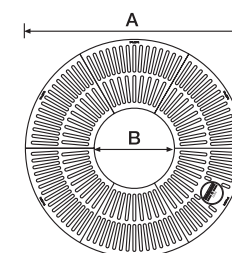
15kN Buderus Sunbeam Cast Iron Tree Grille - Round



Church Street, Cheltenham.

15kN loadings. Buderus Sunbeam only. Grilles are cast 40mm thick around the rims and 12mm across the slotted plate.

All Buderus system grilles are supplied with a load-bearing frame to suit. For an exact specification see pricing chart adjacent to the required tree grille.



from **£336.00** Price per single cast iron tree grille only.

CODE	EXTERNAL DIMENSION A	INTERNAL DIMENSION B	WEIGHT	GRILLE	IRON FRAME	or	STEEL FRAME
BX02 4553 10	1900 dia.	700 dia.	235kg	£499.00	£377.00	or	£443.00
BX02 4554 10	1900 dia.	1100 dia.	219kg	£482.00	£377.00	or	£490.00
BX02 4555 10	1500 dia.	700 dia.	156kg	£371.00	£280.00	or	£346.00
BX02 4555 70	1250 dia.	600 dia.	119kg	£336.00	£258.00	or	£324.00

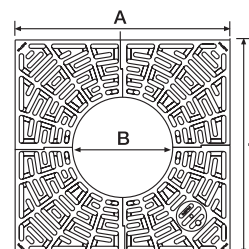
50kN Buderus Radial Cast Iron Tree Grille - Square



BX02 4812 10 shown with the cathodic immersion lacquering (see page 670).

50kN loadings. Buderus Radial only. Grilles are cast 60mm thick around the rims and 20mm across the slotted plate.

All Buderus system grilles are supplied with a load-bearing frame to suit. For an exact specification see pricing chart adjacent to the required tree grille.



from **£572.00** Price per single cast iron tree grille only.

CODE	EXTERNAL DIMENSION A	INTERNAL DIMENSION B	WEIGHT	GRILLE	IRON FRAME	or	STEEL FRAME
BX02 4811 10	1300 □	700 dia.	252kg	£572.00	£298.00	or	£436.00
BX02 4812 10	1500 □	700 dia.	327kg	£639.00	£376.00	or	£450.00
BX02 4813 10	1900 □	700 dia.	613kg	£1330.00	£399.00	or	£529.00
BX02 4817 10	2500 □	700 dia.	1124kg	£1378.00	N/A	or	£1402.00

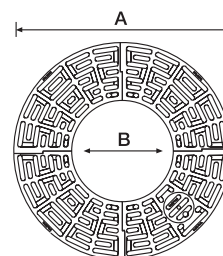
50kN Buderus Radial Cast Iron Tree Grille - Round



Church Street, Cheltenham.

50kN loadings. Buderus Radial only. Grilles are cast 60mm thick around the rims and 20mm across the slotted plate.

All Buderus system grilles are supplied with a load-bearing frame to suit. For an exact specification see pricing chart adjacent to the required tree grille.



from **£522.00** Price per single cast iron tree grille only.

CODE	EXTERNAL DIMENSION A	INTERNAL DIMENSION B	WEIGHT	GRILLE	IRON FRAME	or	STEEL FRAME
BX02 4801 10	1300 dia.	700 dia.	251kg	£522.00	£260.00	or	£590.00
BX02 4802 10	1500 dia.	700 dia.	308kg	£576.00	£316.00	or	£618.00
BX02 4803 10	1900 dia.	700 dia.	676kg	£1380.00	£399.00	or	£904.00
BX02 4805 10	2800 dia.	700 dia.	1429kg	£2353.00	N/A	or	£1379.00

15kN / 50kN Humberg Radial Cast Iron Tree Grille - Square



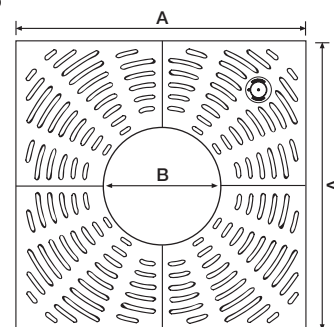
New Cross Hospital, Wolverhampton.



BX02 4711 40 Shown with the cathodic immersion lacquering (see page 670).

15kn/50kn loadings. Humberg Radial only. Grilles are cast 30mm thick throughout.

All Buderus system grilles are supplied with a load-bearing frame to suit. For an exact specification see pricing chart adjacent to the required tree grille.



from **£448.00** Price per single cast iron tree grille only.

CODE	EXTERNAL DIMENSION A	INTERNAL DIMENSION B	SEGMENTS	WEIGHT	GRILLE	STEEL FRAME	15kN Humberg Radial SQUARE
BX02 4710 40	1480 □	600 dia.	4	194kg	£492.00	£399.00	
BX02 4711 40	1780 □	600 dia.	4	318kg	£778.00	£499.00	
BX02 4713 10	1960 □	600 dia.	4	346kg	£973.00	£533.00	
BX02 4714 10	2000 □	1100 dia.	4	381kg	£924.00	£522.00	

CODE	EXTERNAL DIMENSION A	INTERNAL DIMENSION B	SEGMENTS	WEIGHT	GRILLE	STEEL FRAME	50kN Humberg Radial SQUARE
BX02 4761 40	1230 □	600 dia.	4	198kg	£448.00	£565.00	
BX02 4766 40	1980 □	800 dia.	4	530kg	£999.00	£994.00	

tree protection: system buderus tree grilles

15kN / 50kN Humberg Radial Cast Iron Tree Grille - Round

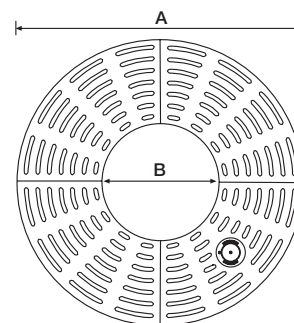


BX02 4701 40 Shown with special lighting hole adaptation and coated with cathodic immersion lacquering (see page 670).



15kn/50kn loadings. Humberg Radial only. Grilles are cast 30mm thick throughout.

All Buderus system grilles are supplied with a load-bearing frame to suit. For an exact specification see pricing chart adjacent to the required tree grille.



from **£360.00** Price per single cast iron tree grille only.

CODE	EXTERNAL DIMENSION A	INTERNAL DIMENSION B	SEGMENTS	WEIGHT	GRILLE	STEEL FRAME	15kN Humberg Radial ROUND
BX02 4700 40	1230 □	600 dia.	4	100kg	£360.00	£298.00	
BX02 4701 40	1480 □	600 dia.	4	158kg	£380.00	£329.00	
BX02 4702 40	1780 □	600 dia.	4	250kg	£687.00	£399.00	
BX02 4703 40	1980 □	800 dia.	4	268kg	£812.00	£545.00	

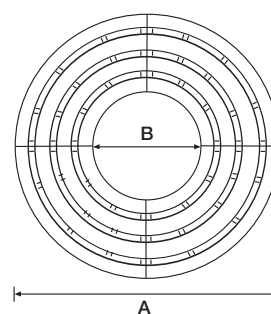
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BX02 Lateral® Tree Grille - Round

MODERN DESIGN - PROVED QUALITY



Shown with inner ring, reducing aperture size.



from **£316.00** Price per single cast iron tree grille only.

CODE	LATERAL ROUND	EXTERNAL APERTURE (mm) A	INTERNAL APERTURE (mm) B	WEIGHT	PRICE
BX02 4513 00	Lateral Tree Grille	1500mm dia.	700mm dia.	156kg	£428.00
BX02 4555 90	Cast iron frame 15kN				£316.00
BX02 936 960	Mild steel frame 50kN				£606.00
BX02 4514 00	Lateral Tree Grille	3000mm dia.	1500mm dia.	407kg	£1599.00
BX02 935 949	Mild steel frame 50kN				£999.00
BX02 4513/4514 00	Lateral Tree Grille	3000mm dia.	700mm dia.	563kg	£1985.00
BX02 935 935	Mild steel frame 15kN				£899.00
BX02 935 948	Mild steel frame 50kN				£999.00

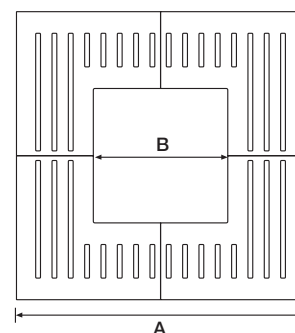
tree protection: system buderus tree grilles

BX02 Lateral® Tree Grille - Square

MODERN DESIGN - PROVED QUALITY



BX02 4513 20 Lateral II - square tree grille with circular design.



from **£256.00** Price per single cast iron tree grille only.

CODE	LATERAL SQUARE	EXTERNAL APERTURE (mm) A	INTERNAL APERTURE (mm) B	WEIGHT	PRICE
BX02 4548 00	Lateral Tree Grille	1200mm □	600mm □	148kg	£389.00
BX02 4548 90	Cast iron frame 15kN				£256.00
BX02 935 950	Mild steel frame 50kN				£495.00
BX02 4549 00	Lateral Tree Grille	1500mm □	700mm □	216kg	£525.00
BX02 4552 90	Cast iron frame 15kN				£368.00
BX02 936 961	Mild steel frame 50kN				£644.00
BX02 4577 00	Lateral Tree Grille	1800mm □	850mm □	312kg	£863.00
BX02 4577 90	Cast iron frame 15kN				£387.00
BX02 937 010	Mild steel frame 50kN				£820.00
BX02 4513 20	Lateral II Tree Grille	1500mm □	700mm □	219kg	£525.00
BX02 4552 90	Cast iron frame 15kN				£368.00
BX02 936 961	Mild steel frame 50kN				£644.00

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BX02 936 Buderus Tree Guard



Church Street, Cheltenham.



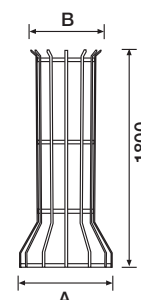
The patented System Buderus integral tree guards provide protection and support to trees. They prevent the tree being damaged by traffic, bicycles, vandals and animals. The Buderus guards are of galvanised mild steel, supplied in two pieces for bolting together on-site and has extended legs for bolting directly to the grille.

The guards are supplied either galvanised only or galvanised and powder coated black RAL 9011. Other RAL finishes are available at extra cost.

The Buderus guards are 1800mm tall as standard and are available to fit the aperture of all Broxap's range of Buderus tree grilles.

from **£335.00** Price per single cast iron tree grille only.

CODE	SIZE AT BASE A	SIZE AT TOP B	FINISH	PRICE
BX02 936 085	600 dia.	360 dia.	Galvanized	£335.00
BX02 936 086	600 dia.	360 dia.	RAL 9011 (black)	£372.00
BX02 936 082	700 dia.	360 dia.	Galvanized	£346.00
BX02 936 083	700 dia.	360 dia.	RAL 9011 (black)	£382.00
BX02 936 088	1100 dia.	560 dia.	Galvanized	£435.00
BX02 936 089	1100 dia.	560 dia.	RAL 9011 (black)	£525.00



tree protection: system buderus tree guards

BX02 936 Humberg Tree Guard



Lord Street, Walsall.



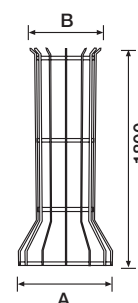
The patented System Buderus integral tree guards provide protection and support to trees. They prevent the tree being damaged by traffic, bicycles, vandals and animals. The Buderus guards are of galvanised mild steel, supplied in two pieces for bolting together on-site and has extended legs for bolting directly to the grille.

The guards are supplied either galvanised only or galvanised and powder coated black RAL 9011. Other RAL finishes are available at extra cost.

The Buderus guards are 1800mm tall as standard and are available to fit the aperture of all Broxap's range of Buderus tree grilles.

from **£382.00** Price per single cast iron tree grille only.

CODE	SIZE AT BASE A	SIZE AT TOP B	FINISH	PRICE
BX02 936 072	600 dia.	400 dia.	Galvanized	£382.00
BX02 936 076	600 dia.	400 dia.	RAL 9011 (black)	£445.00
BX02 936 073	800 dia.	500 dia.	Galvanized	£435.00
BX02 936 077	800 dia.	500 dia.	RAL 9011 (black)	£546.00



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tree grilles, guards and frames

tree grilles

Broxaps range of cast iron Buderus tree grilles are specifically designed for load bearing applications and are available in both 15kN and 50kN ratings.

To enable the product to withstand the above loadings grilles are manufactured to the following specification:
15kN loadings - Buderus Sunbeam only.

Grilles are cast 40mm thick around the rims and 20mm across the slotted plate.

50kN loadings - Buderus Radial only.
Grilles are cast 60mm thick around the rims and 20mm across the slotted plate.

15kN/50kN loadings - Humberg Radial only.
Grilles are cast 30mm thick throughout.



tree guards

The patented System Buderus integral tree guards provide protection and support to trees. They prevent the tree being damaged by traffic, bicycles, vandals and animals. The Buderus guards are of galvanised mild steel, supplied in two pieces for bolting together on-site and has extended legs for bolting directly to the grille.

The guards are supplied either galvanised only or galvanised and powder coated black RAL 9011. Other RAL finishes are available at extra cost.

The Buderus guards are 1800mm tall as standard and are available to fit the aperture of all Broxap's range of Buderus tree grilles.



tree frames

Fully welded galvanised mild steel sub-frames are available in three different styles:

- **15kN loadings.**
Buderus Sunbeam mild steel frames:
These frames are supplied in two half sections for positioning around an existing tree. They comprise both an inner and outer rim connected by radiating struts.
- **15kN loadings.**
Humberg Radial mild steel frames:
These are also supplied in two halves, with angled outer rim and central aperture reinforcement.
- **50kN loadings.**
Humberg Radial mild steel frames:
These frames are a heavier gauge version of the above and are supplied complete with an additional outer frame.

Cast iron frames

- 15kN loadings. Buderus Sunbeam cast iron frames.
- 50kN loadings. Buderus Radial cast iron frames:

Cast iron frames provide a rigid support around the outer edge of the grille, they comprise of eight or more components which are bolted together. These frames can be used with Buderus Sunbeam 15kN and Buderus Radial 50kN as specified (see price chart).



finishes

German standards for cast iron state that painting is not necessary for purposes of corrosion resistance. In accordance with these standards Buderus tree grilles are supplied uncoated as standard. The cast iron forms a self protective oxide layer which provides it with its familiar brown colour. The thickness of the Buderus tree grilles range dictates that the oxide surface layer has no effect on the grille's integrity and load bearing capacities.

If a coating is required the grilles may be coated in a water based high load bearing immersion lacquer - a process known as CIL (Cathode Immersion Lacquering).

Buderus mild steel Tree Frames and Tree Guards are supplied galvanised to DIN 1025 and may also be powder coated black RAL 9011 (other RAL colours available on request).



tree protection: ECOFILL™ - innovative tree protection

ECOFILL™ a brand new concept from Broxap Limited

ECOFILL™ is ideal for new tree-wells or retro-fitting.

Tree grilles are an excellent method of protecting young trees and providing irrigation to the roots, however sometimes budget requires a more economical approach. Location can also have an impact on tree grilles becoming cluttered with rubbish and unwanted debris.

The solution is Broxap's ECOFILL™ a totally new concept in the application of tree protection.

A patented porous polymeric system. Recycled granules of rubber are coloured with a pigmented polyurethane and pre-coated with a material which facilitates rapid curing so that prolonged supervision to prevent damage to the uncured infill is not required.

ECOFILL™ produces a strong porous elastic infill that allows water to penetrate to the tree roots and will not compact. It is flush to the surrounding paved area and can easily be cleaned by brushing.

ECOFILL™ kits comprise of bags of coloured recycled rubber granules and bottles of liquid polyurethane. Simply mix 1 bag of granules with 1 bottle of polyurethane and apply to the tree.



ECOFILL™ used solely within a tree well to create a tree grille within a block paved area.

tree protection: ECOFILL™ - innovative tree protection

ECOFILL™ retro-fitting into existing tree grilles

ECOFILL™ is applied to and completely fills the gaps between grille members. This ensures that debris can no longer accumulate between the grid members. Moreover any surface debris can be easily removed by brushing.



Broxap's standard BX436-1 Kings Lynn tree grille



Broxap's standard BX436-1 Kings Lynn tree grille retro-fitted with ECOFILL™



Broxap's standard BX402 Taverham tree grille.



Broxap's standard BX402 Taverham tree grille retro-fitted with ECOFILL™

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tree protection: ECOGRILLE™ - innovative tree protection

ECOGRILLE™ - a brand new patented system from Broxap

A Broxap ECOGRILLE™ system comprises of a standard Broxap frame and a ECOFILL™ kit.

ECOGRILLE™ (patent applied for) is a highly cost effective system designed specifically for new urban landscaped areas i.e. pavements laid directly onto a compacted sand bedding course. It replaces the conventional cast iron/steel grid with ECOFILL™ - Broxap's strong porous elastomeric infill.

Any standard Broxap frame (sold separately) is suitable for our ECOGRILLE™ system.

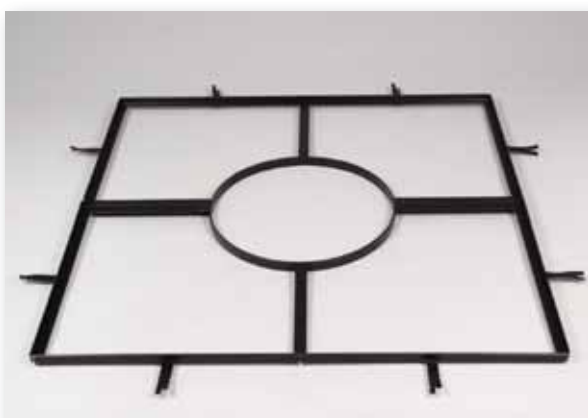
The frame is fitted as normal and the ECOFILL™ mixed immediately prior to installation with a small 40 litre paint/plaster mixer or a conventional cement mixer, readily hired from your local plant hire company.

The un-set 'wet' mixture is installed into the tree-well and allowed to set. It usually sets in approximately 45 minutes at 20°C in direct sunlight but varies depending on ground conditions. Broxap's ECOGRILLE™ provides an attractive cost effective system at a price that was hitherto impossible.

ECOGRILLE™ is a patent applied for systems that incorporates any standard Broxap Grille Frame and Broxap's ECOFILL™ Kit.



Broxap ECOFILL™ Kit



Broxap standard Grille Frame



ECOGRILLE™ used solely to create a tree grille within a block paved area.



Broxaps ECOFILL™ Kit Colour Range and Pricing

Colour Range:

Standard colours available are Red, Green and Brown, and a mix of these (Fiesta), although other colours such as Bright Red, Blue and Yellow or a bespoke colour are also available at an extra cost.

Standard Colour Range



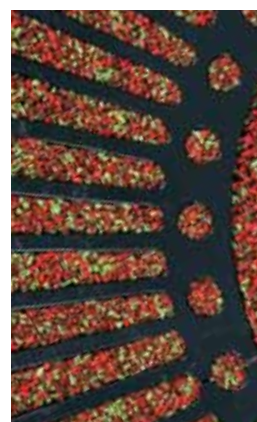
Red



Green



Brown



Fiesta

Bright Colour Range



Bright red



Bright blue



Bright yellow

Pricing

BXECOFILL: £99.99 kit comprising of 2 x 16kg bags of specially treated coloured recycled rubber granules (standard colour range) and 2 x 0.8 litre bottles of liquid polyurethane. This used correctly should cover an area of 1sq/mtr to a depth of 30mm.

BXECOGRILLE: The price is a standard kit above used in conjunction with a Broxap Grille Frame, these are sold separately and can be found within the tree grille section of this brochure.

email: sales@broxap.com website: www.broxap.com