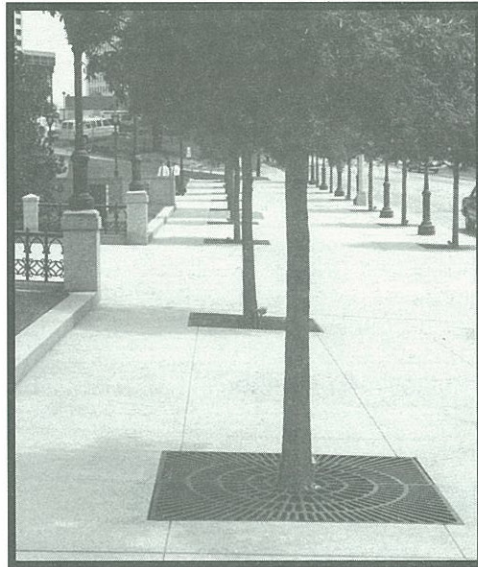




TREE GRATES

REFERENCE MANUAL



BARRY PATTERN & FOUNDRY CO., INC.

3333 35th Avenue North • Birmingham, Alabama 35207

Toll-Free 1-800-524-1809

Fax 205-841-1972 Email BarryFoundry@aol.com

BarryCraft.com or BarryFdy.com



Quality Products

Barrycraft-Construction Casting Company tree grates and frames enhance the landscaping while helping to provide the moisture and air needed to have strong, healthy trees for years to come.

Contents

General information	2-3
Installation procedures	3
Round tree grates	4-8
Square tree grates	9-13
Hexagonal & octagonal tree grates	13
Rectangular tree grates	14
Round-square unit tree grates	15
Specifications	16
Toll free number and facsimilie number	16

Materials available

Barrycraft tree grates will be provided in gray cast iron unless otherwise requested.

Gray cast iron This excellent material is more economical than cast aluminum, and exhibits good corrosion resistance. Left unpainted, gray cast iron will take on a natural rust color.

Cast aluminum Cast aluminum's natural silver gray color will maintain its attractive appearance for years to come. Cast aluminum is easier to handle as it weighs less than gray cast iron. It is recommended when a natural rust appearance or maintenance of tree grates are neither possible nor practical.

An important note

The tree grates shown in this catalog are a small number of the standard styles available. If you do not see the design you are looking for, we can easily cross-reference most other manufacturer's styles. We will be glad to give you a quotation on a similar design in the Barrycraft-Construction Casting Company line.

Custom designs

We are also able to produce custom designs. Let us know what you need. Our design and in-house pattern shop will help you custom design your tree grate so that it can be produced at a reasonable cost.

Frames available

Cast angle frames



Type "L" frames are recommended for tree grate installations where paving or poured concrete will embed the anchor into the surface. Maximum length of each frame is 2'0" long. Shorter pieces will be supplied as needed.

Steel angle frame

Our standard steel frames are fabricated from 1-3/4" x 1-3/4" angle for standard 1-1/2" edge thick grates. Anchors may be provided on the frames upon request.



Installation procedures

The majority of General Contractors have their own particular method of installing tree grates and frames. However, there are a few key tips which are essential and should be closely followed to insure a proper installation.

Frames

Barrycraft's frame sections are to be bolted together. Caution must be taken to keep the frames level and completely square or round during the installation. It is recommended that a template be cut with a 1/4" clearance (all sides) larger than the tree grate. The template is then placed in the frame to keep all edges of the frame level and parallel during the pouring operation. This will result in a level and parallel frame on which the tree grating will be properly seated with a continuous bearing surface. Bolts to be supplied by others.

Tree grates

After the tree is planted, the tree grates are fitted around the tree and into the frames. Tree grates provided in two piece sections are simply placed into the frame after any debris has been removed from the frame and the tree grate. When the grate is placed in the frame, the grates are to be flush with the top of the frame.

Tree grates provided in greater than two piece sections will have bolt lugs on the underneath side of the tree grate for bolting the sections together. It is also recommended that suitable supports be placed under the tree grate section. Bolts and supports are to be provided by others.

Lighting grates

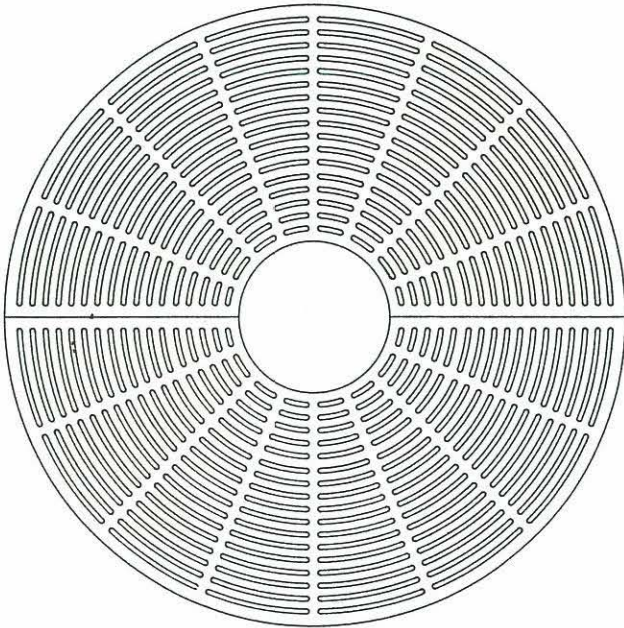
When a tree grate with a lighting grate has been selected, for easy access to lighting fixtures, the lighting grate should be fastened to the tree grate with flat head screws.

Security bolting

Occasionally, security bolting of the tree grates to the frames may be desired. Barrycraft can drill and tap the tree grates to accommodate whatever type of bolt desired.

Round tree grates

For pedestrian and handicapped traffic.
Available in six sizes.

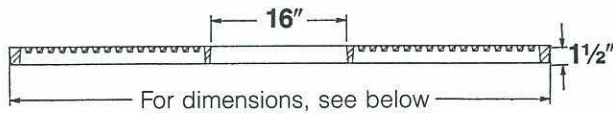


Concentric design.

B-TG876 series

- Two piece tree grate unit.
- Narrow slots are provided for both pedestrian and handicapped traffic.
- Standard 16 inch tree opening is expandable.
- Frame is available if required.
See page 3.

Side View



The tree grate illustrated is a typical example of the B-TG876 series. Dimensions and number of spaces will vary according to size.

Style	Size	Edge thickness	Tree opening
B-TG876-1	36" diameter	1½" edge	16" diameter
B-TG876-2	42" diameter	1½" edge	16" diameter
B-TG876-3	48" diameter	1½" edge	16" diameter
B-TG876-4	54" diameter	1½" edge	16" diameter
B-TG876-5	60" diameter	1½" edge	16" diameter
*B-TG876-6	72" diameter	1½" edge	16" diameter

*Four piece unit. Supports are required and to be supplied by others.

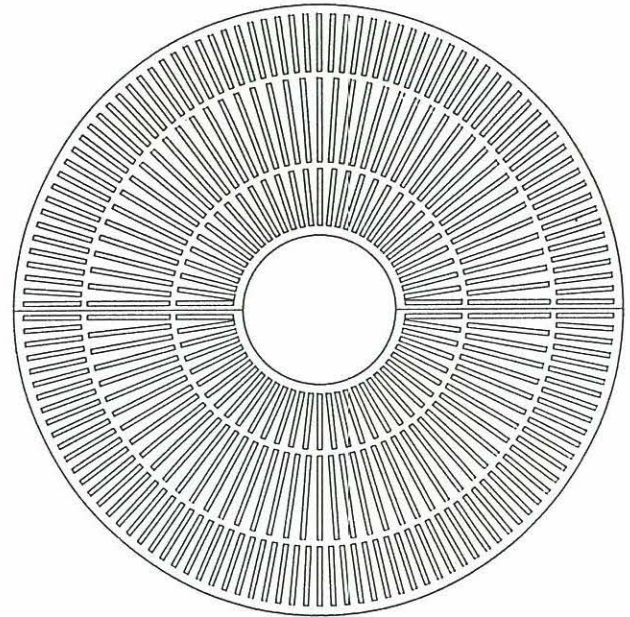
Round tree grates

For pedestrian and handicapped traffic.
Available in six sizes.

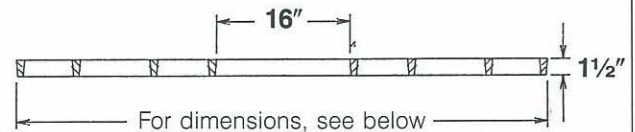
Sunburst design.

B-TG873 series

- Two piece tree grate unit.
- Same as B-TG876 series but with sunburst design.
- Narrow slots are provided for both pedestrian and handicapped traffic.
- Standard 16 inch tree opening is expandable.
- Frame is available if required. See page 3.



Side View



The tree grate illustrated is a typical example of the B-TG873 series. Dimensions and number of spaces will vary according to size.

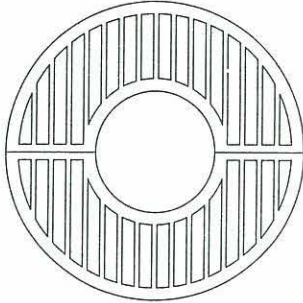
Style	Size	Edge thickness	Tree opening
B-TG873-1	36" diameter	1½" edge	16" diameter
B-TG873-2	42" diameter	1½" edge	16" diameter
B-TG873-3	48" diameter	1½" edge	16" diameter
B-TG873-4	54" diameter	1½" edge	16" diameter
B-TG873-5	60" diameter	1½" edge	16" diameter
*B-TG873-6	72" diameter	1½" edge	16" diameter

*Four piece unit. Supports are required and to be supplied by others.

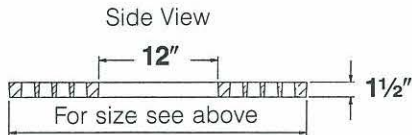
Round tree grates

B-TG825 30" diameter

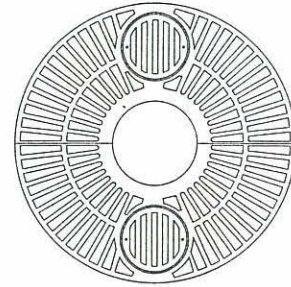
36" diameter available. **Order B-TG825-1**
 42" diameter available. **Order B-TG825-2**
 48" diameter available. **Order B-TG825-3**



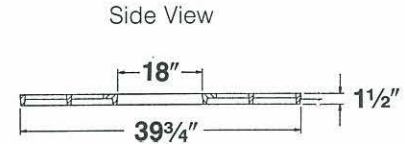
- Small two piece tree grate unit
- Non-expandable.
- Available with frame if required. See page 3.



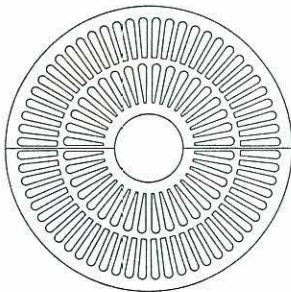
B-TG827-A1 39-3/4" diameter



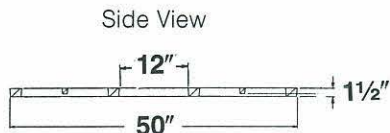
- Two piece tree grate unit.
- Has removable 10 3/8" diameter lighting grates.
- Non-expandable.
- Available with frame if required. See page 3.



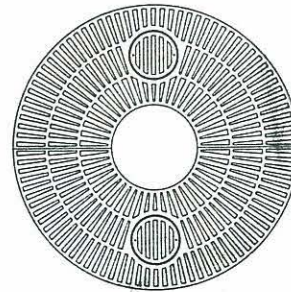
B-TG833 50" diameter



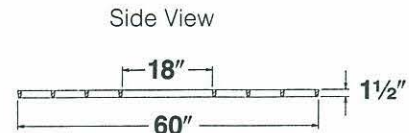
- Two piece tree grate unit.
- Non-expandable.
- Available with frame if required. See page 3.



B-TG837-1 60" diameter

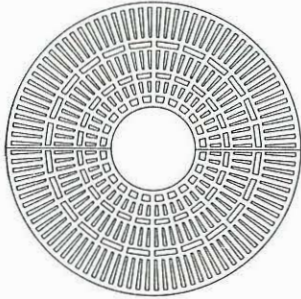


- Two piece tree grate unit.
- Has removable 10 3/8" diameter lighting grates. **(Available without lighting grates. Order B-TG837).**
- Available with frame if required. See page 3.

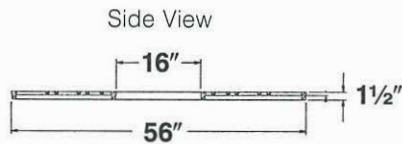


Round tree grates

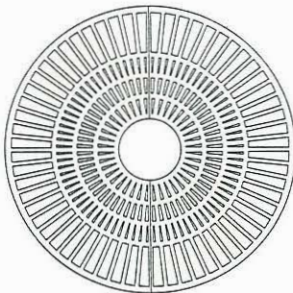
B-TG843 56" diameter



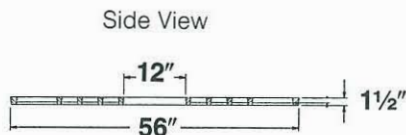
- Two piece tree grate unit.
- Tree opening is expandable.
- Available with frame if required. See page 3.



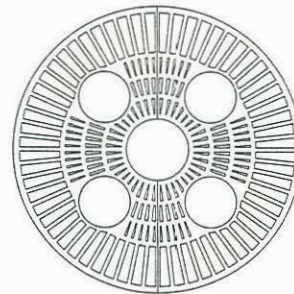
B-TG849 56" diameter



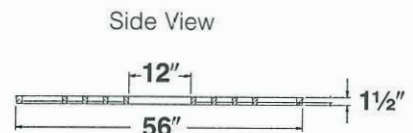
- Two piece tree grate unit.
- Tree opening is expandable.
- Available with frame if required. See page 3.



B-TG849-1 56" diameter



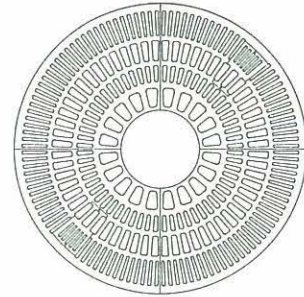
- Two piece tree grate unit.
- Same as B-TG849 but with four 10" diameter light openings.
- Non-expandable.
- Available with frame if required. See page 3.



Round tree grates



B-TG855-1 72" diameter



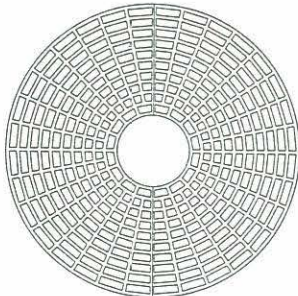
- Four piece tree grate unit. Supports are required at section joints and are to be furnished by others.
- Has two removable bolted lighting grates.
- Tree opening is expandable.
- Available with frame if required. See page 3.

Side View



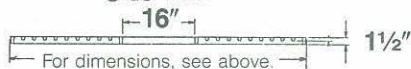
B-TG859 82" diameter

36" diameter available. **Order B-TG859-1**
48" diameter available. **Order B-TG859-2**

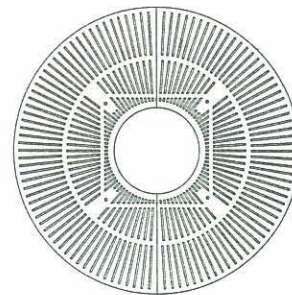


- Four piece tree grate unit. Supports are required at section joints and are to be furnished by others.
- **B-TG859-1 and B-TG859-2 are two piece tree grate units. Supports are not required.**
- Tree opening is expandable.
- Available with frame if required. See page 3.

Side View

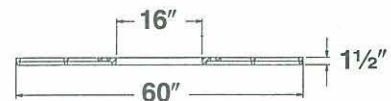


B-TG869 60" diameter



- Two piece tree grate unit.
- Narrow slots for added safety for pedestrian traffic.
- Four one inch diameter holes are provided for staking tree.
- Non expandable.
- Available with frame if required. See page 3.

Side View



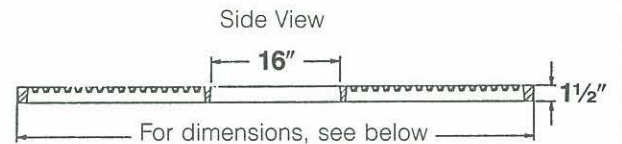
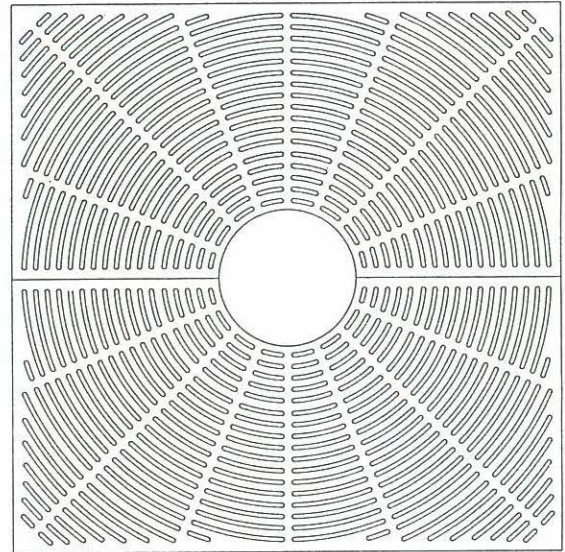
Square tree grates

For pedestrian and handicapped traffic.
Available in six sizes.

Concentric design.

B-TG710 series

- Two piece tree grate unit.
- Narrow slots are provided for both pedestrian and handicapped traffic.
- Standard 16 inch tree opening is expandable.
- Frame is available if required.
See page 3.



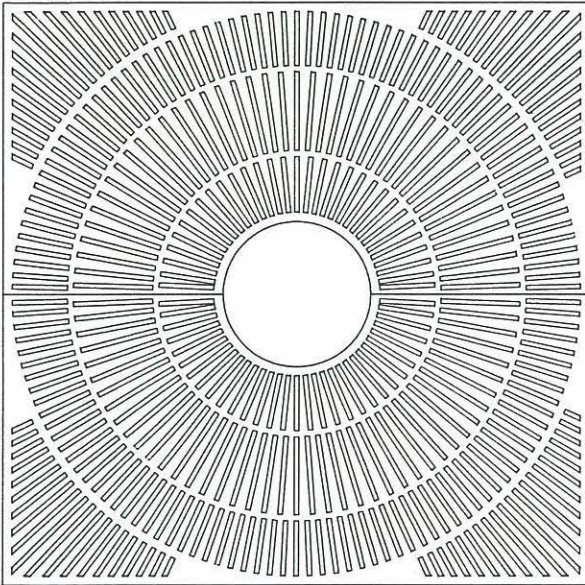
The tree grate illustrated is a typical example of the B-TG710 series. Dimensions and number of spaces will vary according to size.

Style	Size	Edge thickness	Tree opening
B-TG710-1	36" x 36"	1 1/2" edge	16" diameter
B-TG710-2	42" x 42"	1 1/2" edge	16" diameter
B-TG710-3	48" x 48"	1 1/2" edge	16" diameter
B-TG710-4	54" x 54"	1 1/2" edge	16" diameter
B-TG710-5	60" x 60"	1 1/2" edge	16" diameter
*B-TG710-6	72" x 72"	1 1/2" edge	16" diameter

*Four piece unit. Supports are required and to be supplied by others.

Square tree grates

For pedestrian and handicapped traffic.
Available in six sizes.

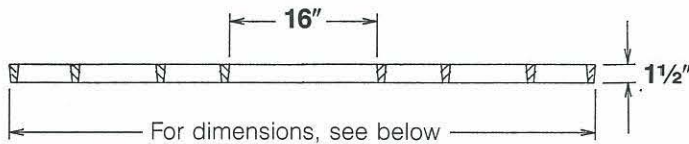


Sunburst design.

B-TG729 series

- Two piece tree grate unit.
Same as B-TG710 series but with sunburst design.
- Narrow slots are provided for both pedestrian and handicapped traffic.
- Standard 16 inch tree opening is expandable.
- Frame is available if required.
See page 3.

Side View



The tree grate illustrated is a typical example of the B-TG729 series. Dimensions and number of spaces will vary according to size.

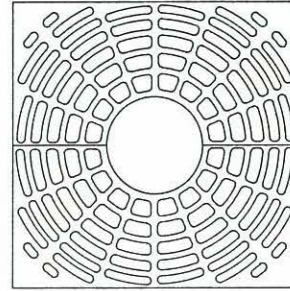
Style	Size	Edge thickness	Tree opening
B-TG729-1	36" x 36"	1 1/2" edge	16" diameter
B-TG729-2	42" x 42"	1 1/2" edge	16" diameter
B-TG729-3	48" x 48"	1 1/2" edge	16" diameter
B-TG729-4	54" x 54"	1 1/2" edge	16" diameter
B-TG729-5	60" x 60"	1 1/2" edge	16" diameter
*B-TG729-6	72" x 72"	1 1/2" edge	16" diameter

*Four piece unit. Supports are required and to be supplied by others.

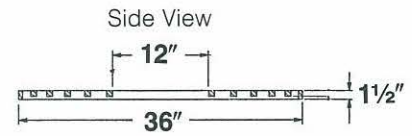
Square tree grates



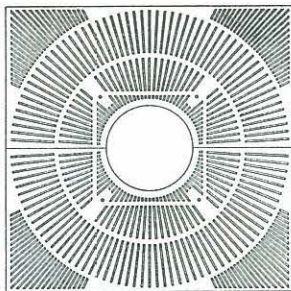
B-TG702 36" x 36"



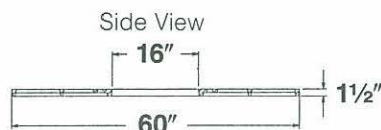
- Two piece tree grate unit.
- Tree opening is expandable.
- Available with frame if required. See page 3.



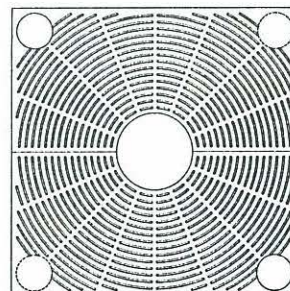
B-TG714 60" x 60"



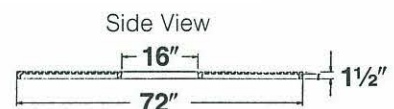
- Two piece tree grate unit.
- Narrow slots for added safety for pedestrian traffic.
- Four 1" diameter holes are provided for staking tree.
- Non-expandable.
- Available with frame if required. See page 3.



B-TG716 72" x 72"



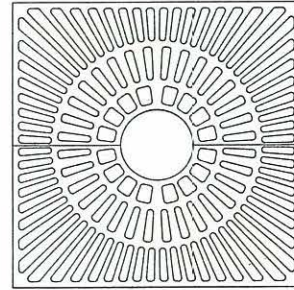
- Four piece tree grate unit. Supports are required at section joints and are to be furnished by others.
- Narrow slots for added safety for pedestrian traffic.
- Four corner spaces provided for custom or corporate logo.
- Tree opening is expandable.
- Available with frame if required. See page 3.



Square tree grates

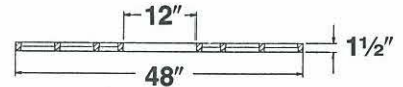


B-TG726 48" x 48"

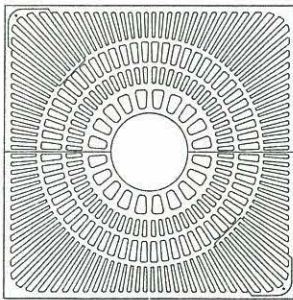


- Two piece tree grate unit.
 - Tree opening is expandable.
 - Available with frame if required.
- See page 3

Side View

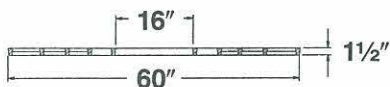


B-TG738-A1 60" x 60"

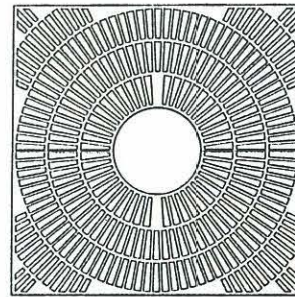


- Two piece tree grate unit.
 - Two lighting grates are bolted to tree grate.
 - Tree opening is expandable.
 - Available with frame if required.
- See page 3.

Side View

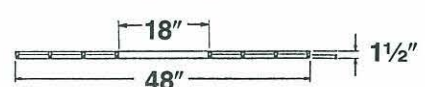


B-TG742 48" x 48"



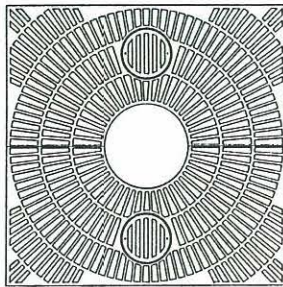
- Two piece tree grate unit.
 - Tree opening is expandable.
 - Available with frame if required.
- See page 3.

Side View

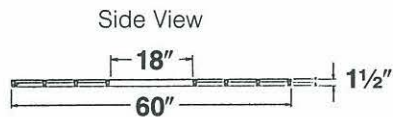


Square tree grates

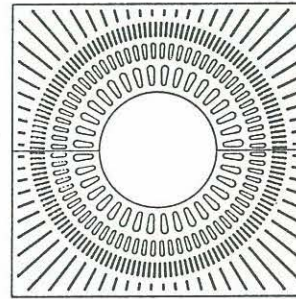
B-TG742-A1 60" x 60"



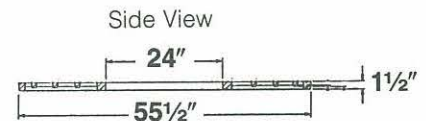
- Two piece tree grate unit.
- Two 10³/₈" diameter lighting opening grates are bolted to tree grate.
- **Available without lighting grates. Specify B-TG742-A.**
- Non-expandable.
- Available with frame if required. See page 3.



B-TG752 55¹/₂" x 55¹/₂"

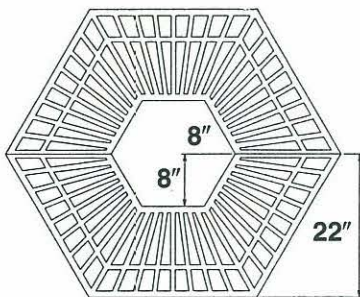


- Two piece tree grate unit.
- Large tree opening which can be further expanded.
- Available with frame if required. See page 3.

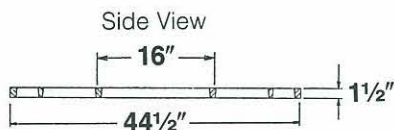


Hexagonal, octagonal tree grates

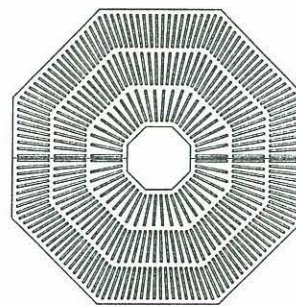
B-TG950 Hexagon
44¹/₂" across parallel sides



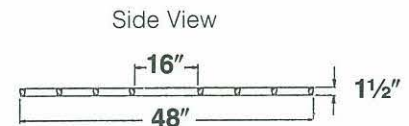
- Two piece tree grate unit.
- Hexagon design.
- Non expandable.
- Available with frame if required. See page 3.



B-TG951 Octagon
48" across parallel sides

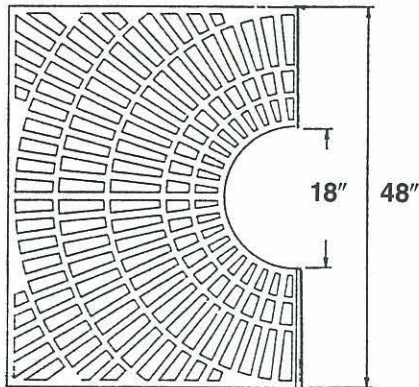


- Two piece tree grate unit.
- Octagon design.
- Tree opening is expandable.
- Available with frame if required. See page 3.



Rectangular tree grates

B-TG802 48" x 72"



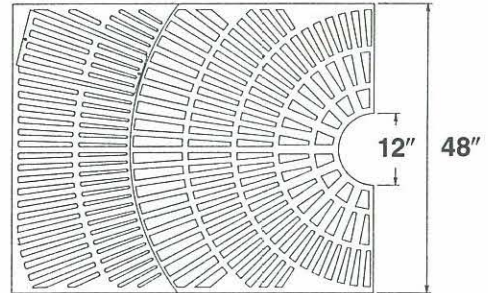
Half Section

- Two piece tree grate unit.
- Tree opening is expandable.
- Available with frame if required. See page 3.



Side View
Half Section

B-TG806-1 48" x 120"



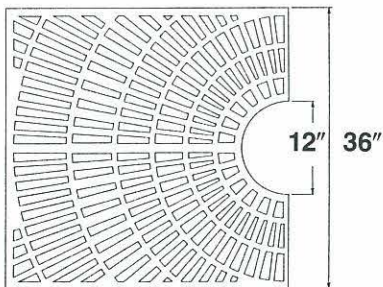
Half Section

- Four piece tree grate unit. (Supports are required at section joints and are to be furnished by others.)
- Two lighting grates are bolted to tree grate.
- Tree opening is expandable.
- Available with frame if required. See page 3.



Side View
Half Section

B-TG808 36" x 72"

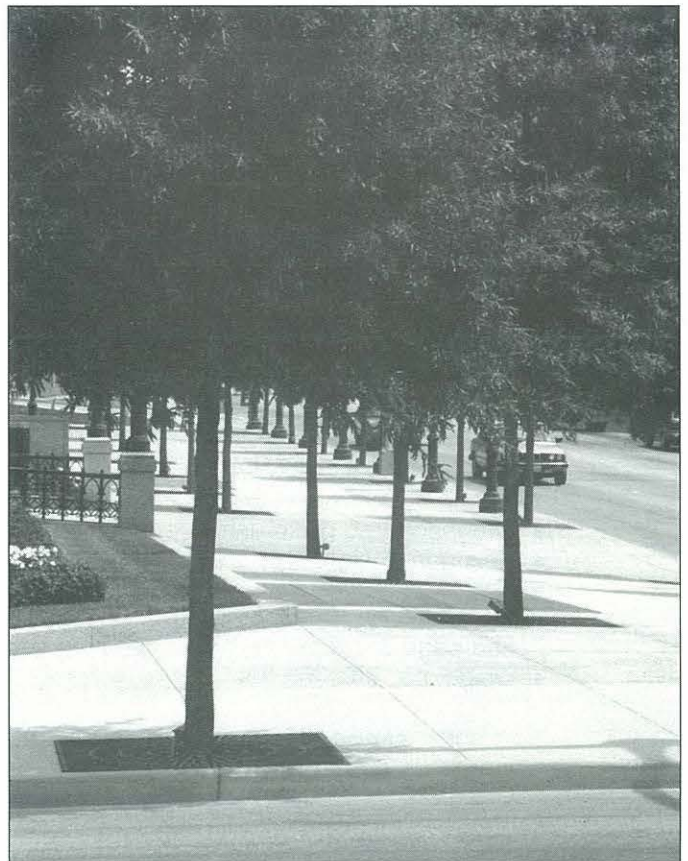


Half Section

- Two piece tree grate unit.
- Tree opening is expandable.
- Available with frame if required. See page 3.

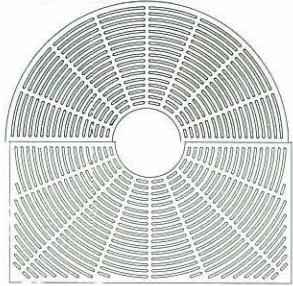


Side View
Half Section



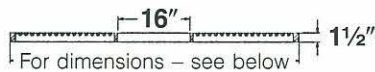
Round-square tree grate units For pedestrian and handicapped traffic.

B-RS876 series Concentric design

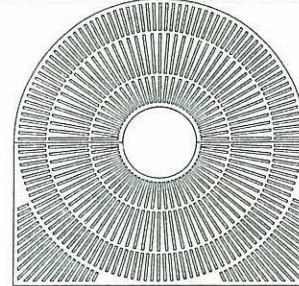


- Two piece tree grate units (except B-RS876-6 which is a four piece unit. Supports are required and to be provided by others).
- Narrow slots for added pedestrian and handicapped traffic safety.
- Tree opening is expandable.
- Optional de-spandable tree opening insert available upon request.
- Available with frame if required. See page 3.
- See chart below for additional information.

Side View

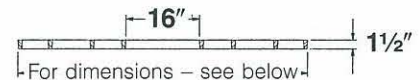


B-RS873 series Sunburst design



- Two piece tree grate units (except B-RS873-6 which is a four piece unit. Supports are required and to be provided by others).
- Narrow slots for added pedestrian and handicapped traffic safety.
- Tree opening is expandable.
- Optional de-spandable tree opening insert available upon request.
- Available with frame if required. See page 3.
- See chart below for additional information.

Side View



Style number	Use of 1/2 sections of:	Design	Page reference numbers	Side & diameter dimensions
B-RS876-1	B-TG876-1 & B-TG710-1	Concentric	4 & 9	36 inches
B-RS876-2	B-TG876-2 & B-TG710-2	Concentric	4 & 9	42 inches
B-RS876-3	B-TG876-3 & B-TG710-3	Concentric	4 & 9	48 inches
B-RS876-4	B-TG876-4 & B-TG710-4	Concentric	4 & 9	54 inches
B-RS876-5	B-TG876-5 & B-TG710-5	Concentric	4 & 9	60 inches
B-RS876-6	B-TG876-6 & B-TG710-6	Concentric	4 & 7	72 inches
B-RS873-1	B-TG873-1 & B-TG729-1	Sunburst	5 & 10	36 inches
B-RS873-2	B-TG873-2 & B-TG729-2	Sunburst	5 & 10	42 inches
B-RS873-3	B-TG873-3 & B-TG729-3	Sunburst	5 & 10	48 inches
B-RS873-4	B-TG873-4 & B-TG729-4	Sunburst	5 & 10	54 inches
B-RS873-5	B-TG873-5 & B-TG729-5	Sunburst	5 & 10	60 inches
B-RS873-6	B-TG873-6 & B-TG729-6	Sunburst	5 & 10	72 inches

Short Form Specifications & Service Information



Other products available.



Gray cast iron

Gray cast iron tree grates (and frames) shall be as manufactured by Barry Pattern and Foundry (Barry-Craft), Birmingham, Alabama.

Gray cast iron used in the manufacture of tree grates (and frames) shall conform to ASTM A48-83, class 30.

All castings shall be of uniform quality, free from blow holes, shrinkage defects, swells, cracks or other defects. Casting will be free of fins, burrs and slag.

Cast aluminum

Cast aluminum tree grates (and frames) shall be as manufactured by Barry Pattern and Foundry (Barry-Craft), Birmingham, Alabama.

Cast aluminum used in the manufacture of tree grates (and frames) shall be alloy 319 meeting Federal Speci-

fications QQ-A-601 and ASTM B-26. All castings shall be of uniform quality, free from blow holes, shrinkage defects, swells, cracks or other defects. Castings will be free of fins, burrs and slag. Cast aluminum will be natural sand-blast finish.

**For quotations, orders, design recommendations
or answers to your questions, please call or write:**



**Call: Barry Pattern & Foundry Company, Inc.
3333 35th Avenue North, Birmingham, Alabama 35207**

**Toll Free - 1-800-524-1809
In Birmingham, call 205-841-8725
Fax 205-841-1972**

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