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Decorative Streetscape Solutions



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Expandable tree openings.
Replace the center rings as
your tree grows.



Made in the USA
Meets American Iron and Steel (AIS)
requirements—please contact your
Sales Representative for Buy America
requirements prior to ordering.

All sales by EJ USA, Inc. are subject to and governed by the EJ USA, Inc. Terms and Conditions of Sale, which can be located at r.ejco.com/ustc and are hereby incorporated into this catalog by reference.

Products for Your Urban Design Project

Complement Your Streetscape



Streetscapes and Urban Design

EJ offers a comprehensive portfolio of products that add functionality and visual appeal to any streetscape. Cast iron designer tree grates, detectable warning plates, and custom logo covers make any urban landscape complete with coordinating materials and artistic designs. Steel tree guards are an additional decorative and wear-resistant tree protection option that helps tie your landscaping vision together. Seamlessly integrate your paver or concrete design across the site with infill floor doors that accommodate pavers of varying heights or concrete to match your creativity.

Tree Grates

Decorative tree grates by EJ are the perfect blend of form and function. Available in many styles and designs, they promote healthier trees by offering air and rainwater a path to the roots, while providing a flat, ADA compliant pedestrian surface. Protect your investment in green infrastructure and maximize benefits to your community by promoting healthy tree growth and longevity. Choose the correct size tree grate and removable center so your trees can reach their full potential.

Cast Iron: The Natural Choice

Uncoated cast iron forms a beautiful and rustic patina over time, adding charm and character to these drainage and safety products. This environmentally friendly product contains a minimum of 85% recycled materials and is completely recyclable after its useful life.

Styles Available



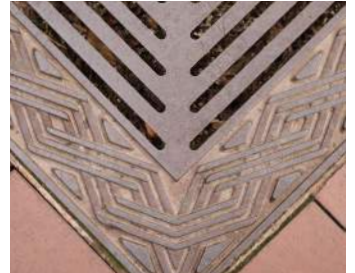
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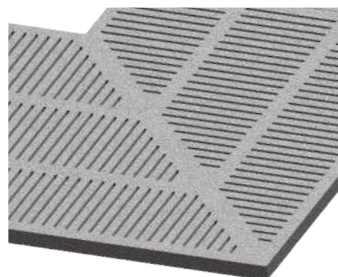
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Tree Grate Features and Options

Identify and Customize



Customize your grates with the name of your municipality, corporation, or development to further strengthen your identity. Custom sizes, sub-grade lighting, tree guards, and matching ADA trench grating are just a few of the options available. We can help you design a tree grate that will be uniquely yours.

Access Port Options



Illuminate the beauty of your trees at night. Several of our tree grate designs offer an access port option allowing for the installation of sub-grade lighting units, staking, or a watering well. Use direct lighting to create a special atmosphere and provide more light to surrounding areas. Size can be plasma cut to fit any size well light.

ADA Compliant Tree Grates



EJ has numerous tree grates and trench grates designed to comply with ADA standards. The guidelines specify that grating, whether tree grates or trench grating, located in pedestrian walkways shall not allow passage of a sphere more than 1/2" (13 mm) in diameter. Additionally, if grating has elongated openings, the long dimension is to be perpendicular to the dominant direction of travel.

Security Bolting Feature



Security bolting



Security bolting with plastic caps



Security underside bolting

EJ has developed a hassle-free way to ensure solid, long lasting security. Compatible with standard hex bolts or special security designs, our EON LOCK® design — an innovative approach to bolted tree grates, provides a reliable and permanent fastening solution.

Tree Guard Bolting Tabs



Some of our tree grates are equipped with tree guard bolting tabs for easy and secure installation of tree guards.

Shape and Size



Tree Grates by EJ are available in a variety of sizes and shapes (rectangular, square, round, and half round half square).

Retrofit Tree Grates



EJ offers a tree grate solution for retrofit applications. For a perfect fit, simply cut the concrete to the recommended size and set the tree grate in the hole. This tree grate can also be used in new construction by forming the hole to size and eliminating the need to cut the concrete (see page 27).

Expandable Tree Openings Allow the Center Ring to be Removed as the Tree Grows

Plan ahead and your streetscape will remain beautiful for decades!

Numerous tree grate designs are available with optional center ring inserts. The removable center rings are a convenient way to adjust (expand) the tree grate opening diameter as the tree trunk grows in width.

As you plan ahead for plantings and tree pit maintenance of the streetscape, order your grate with one or more of the optional rings. Later, you may remove or swap out a ring to increase the size of the opening during a higher growth phase as the tree matures.

Another situation for which the rings are beneficial is when changing out an older growth tree. If you need to remove an existing tree and re-plant with another, insert a ring to the grate so that the opening is a more appropriate fit for your new tree. Over time, as the young tree grows, remove the ring to expand the opening diameter again when needed.



Center rings can be removed later to accommodate for tree growth.

Ordering/Application Example

The 8692 Provence series 48" x 72" (1219 x 1829 mm) rectangular grate has a standard 30" (762 mm) diameter tree opening. To narrow the tree opening to a diameter of 18" (457 mm), order the 8692 30-18D center ring, and install it by placing the two half-rings onto the inner lip of the standard opening, and bolt them together to form the complete ring. To narrow the tree opening to a diameter of 24" (610 mm), order the 8692 30-24D center ring, and install/bolt together in the same manner to complete the ring. Later on, either ring is removable or replaceable to create the desired size opening and accommodate for the growth of your tree. Contact your EJ Sales Representative for additional help ordering tree grates with removable center rings.



Poor size selection for the tree opening results in an unfinished look, significantly crowds the tree, and impairs proper tree growth.



A 16" (406 mm) removable center ring is used when planting a young tree. This helps protect the vulnerable tree.



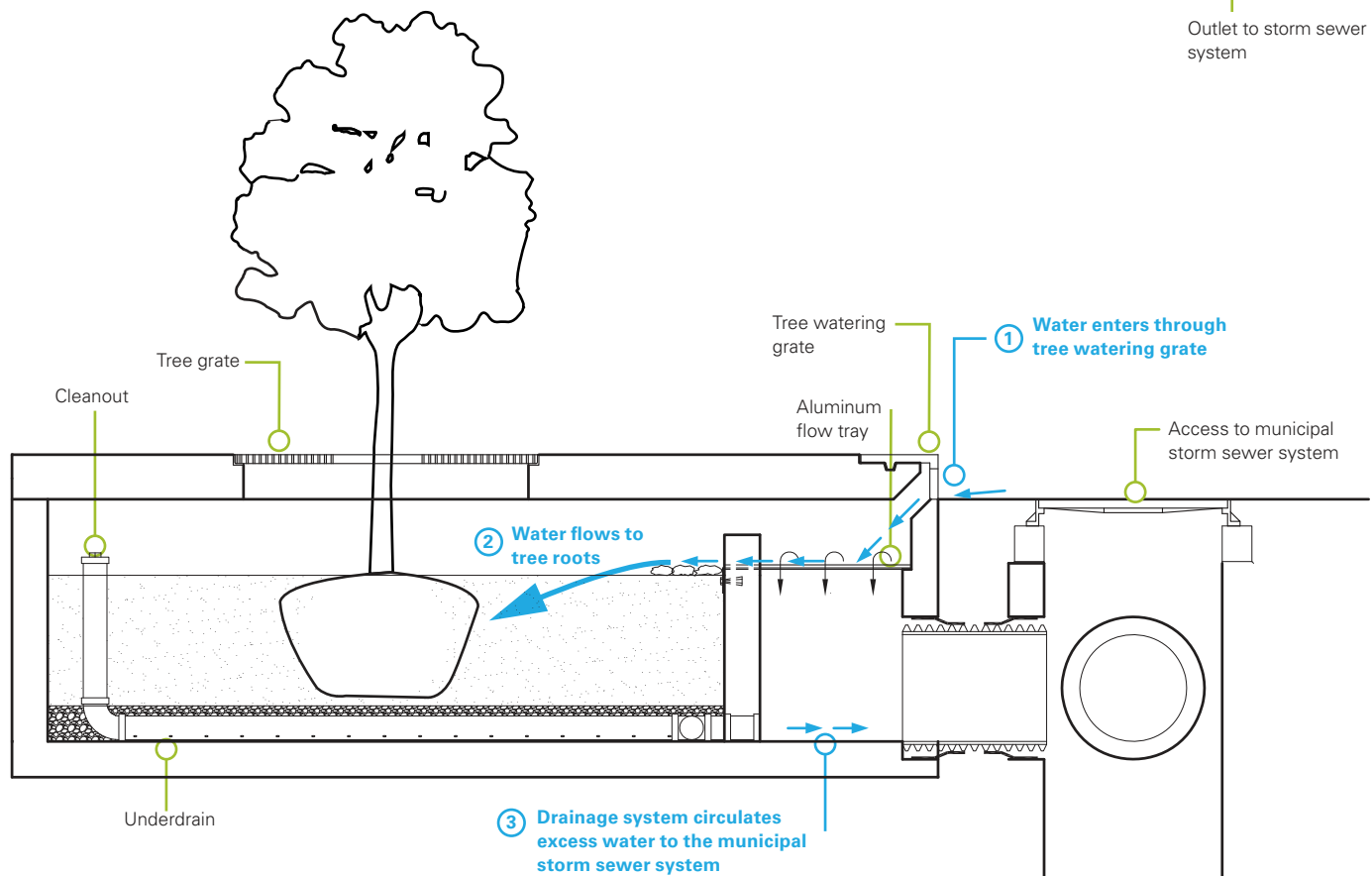
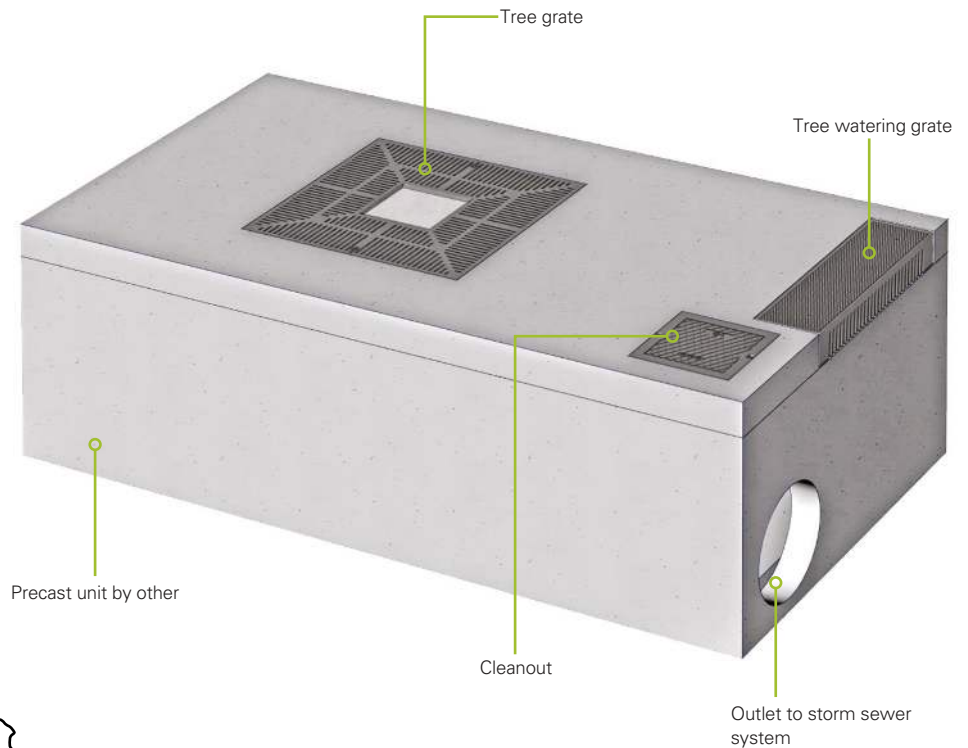
A 24" (610 mm) removable center ring is inserted in the grate to accommodate tree growth for a maturing tree.

Complement Your Green Infrastructure Project with Products by EJ

Tree Watering Grates

Tree watering grates along curb lines allow road runoff to be directed to tree pits. The water is then distributed to street trees through underground watering systems.

This approach provides water to the tree, reduces watering costs for cities, and allows filtering of pollutants. This method takes advantage of the natural ability of trees to absorb and filter stormwater and reduces the threat of CSOs (combined sewer overflows) to water bodies. Tree watering grates can be used in combination with tree grates to promote healthy street tree growth.



Note: Example installation, EJ products can be used with cast-in-place or precast systems. EJ does not endorse a specific precast system.

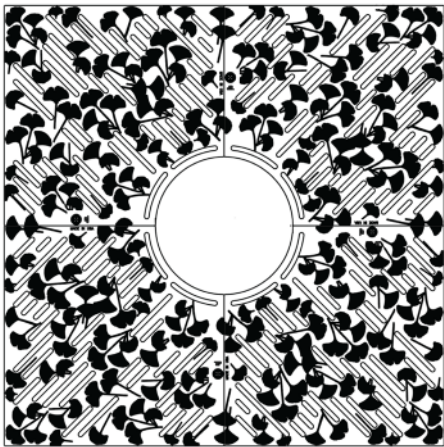
GINKGO

The Ginkgo tree, which naturally flourishes in urban environments, is the inspiration for the Ginkgo design.



Birmingham, Michigan

Ginkgo Tree Grate	
Grate Size	48" (1219 mm) sq.
Series Number	8581
Tree Opening	15" (381 mm) dia.
Number of Pieces	4
Options	Matching trench grate



Ginkgo Trench Grate

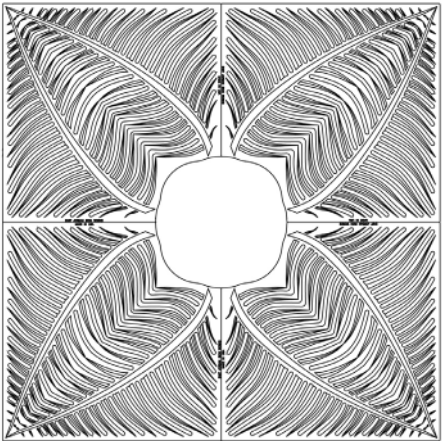
FOLIAGE

Strikingly attractive palm fronds in the Foliage will give a warm, luxuriant feel to your streetscape.



Clarendon Hills, Illinois

Foliage Tree Grate				
Grate Size (Sq.)	Series Number	Tree Opening Options (Dia.)	Number of Pieces	Options
60" (1524 mm)	8582	18" (457 mm)	4	Security bolting
72" (1829 mm)	8926	18", 24" (457, 610 mm)	2	Security bolting



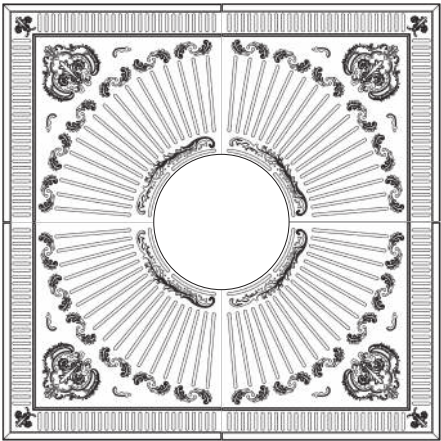
CHELSEA

The Chelsea is reminiscent of the Victorian era. The ornate floral designs will remind you of a vintage English garden.



East Jordan, Michigan

Chelsea Tree Grate	
Grate Size	60" (1524 mm) sq.
Series Number	8583
Tree Opening	18" (457 mm) dia.
Number of Pieces	4



METROPOLIS

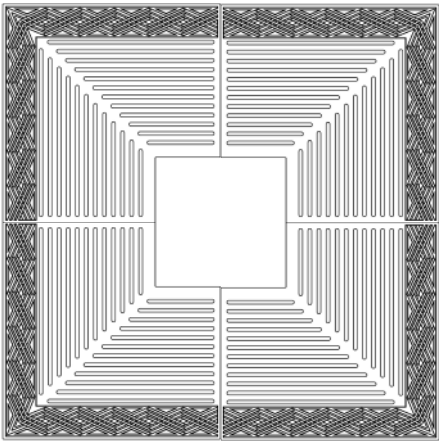
The Metropolis design conveys a big city vibe with its contemporary style and will fit within any urban area.



Detroit, Michigan

Metropolis Tree Grate

Grate Size	60" (1524 mm) sq.
Series Number	8584
Tree Opening	18" (457 mm) sq.
Number of Pieces	4



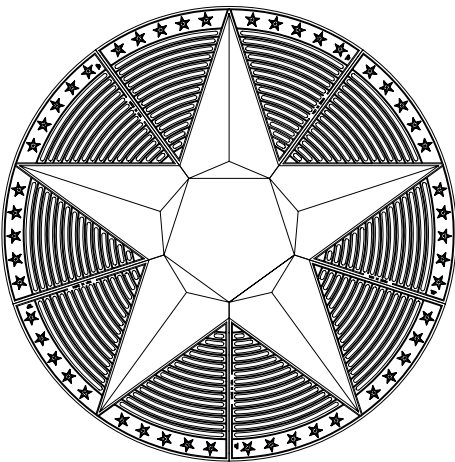
PATRIOT

True to its roots, the Patriot displays great American pride.



Tulsa, Oklahoma

Patriot Tree Grate	
Grate Size	60" (1524 mm) dia.
Series Number	8590
Tree Opening	16 3/8" (416 mm) pent.
Number of Pieces	5
Options	Matching trench grate



Patriot Trench Grate

MESA

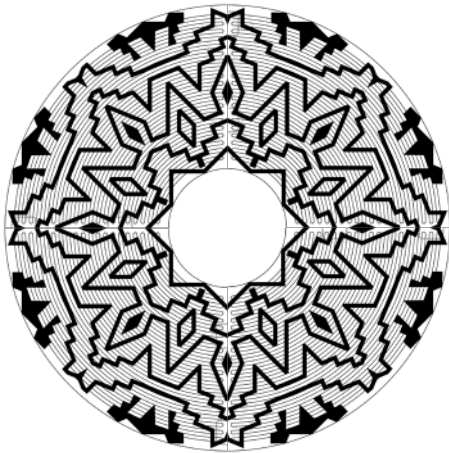
Various layers of cast iron gives the Mesa its distinctive woven design.



Park Hill, Oklahoma

Mesa Tree Grate

Grate Size	60" (1524 mm) dia.
Series Number	8591
Tree Opening	16" (406 mm) dia.
Number of Pieces	4



TRADEMARK

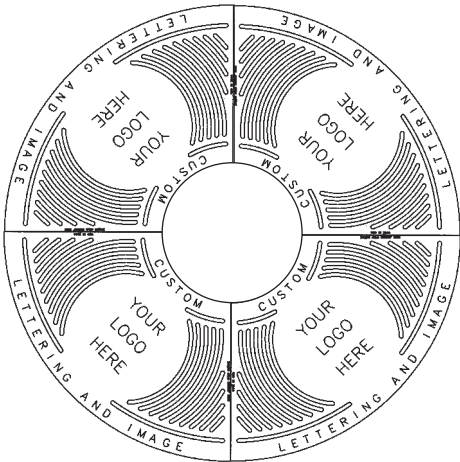
Personalize your streetscape with custom logo designs and special lettering with the Trademark tree grate.



San Diego, California

Trademark Tree Grate

Grate Size	60" (1524 mm) dia.
Series Number	8592
Tree Opening	18" (457 mm) dia.
Number of Pieces	4
Options	Custom logo Special lettering



GARLAND

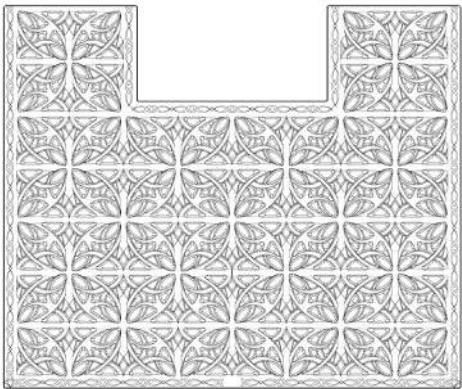
The braided ornaments of the Garland tree grate add a festive decoration to any streetscape.



East Jordan, Michigan

Garland Tree Grate

Grate Size	36" x 60" (914 x 1524 mm)
Series Number	8698
Tree Opening	15" (381 mm) sq.
Number of Pieces	2
Options	Matching trench grate



One Section Illustrated



Garland Trench Grate

ORBIT

Passersby will gravitate to the clean spaces and elliptical shapes of the Orbit design.



Yuba City, California



Coldwater, Michigan





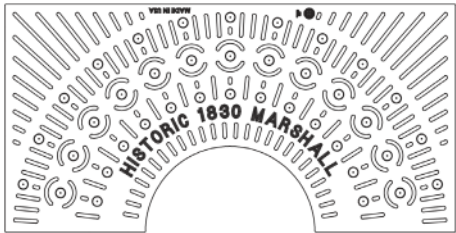
48" (1219 mm) square Orbit (two piece) with 18" (457 mm) diameter opening



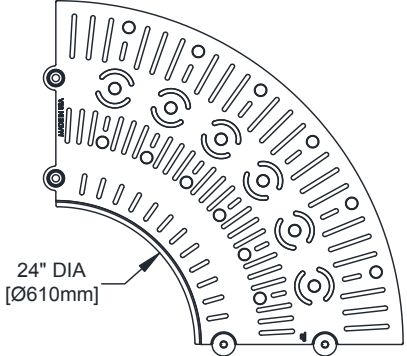
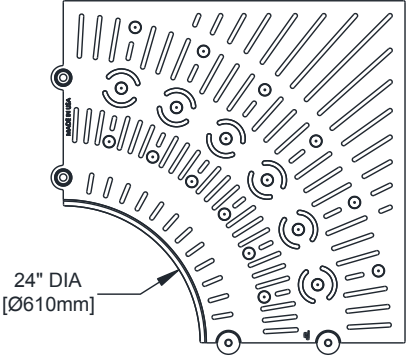
60" (1524 mm) square Orbit (four piece) with 24" (610 mm) diameter opening for removable center



60" (1524 mm) round Orbit (four piece) with 24" (610 mm) diameter opening for removable center



Special lettering is available in a two piece design, with an 18" (457 mm) opening.



18" (457 mm) diameter tree opening with removable center ring to accommodate tree growth — 00858563. Available only on the 24" (610 mm) diameter standard tree opening.



Security bolting



Security bolting with plastic caps

Orbit Tree Grate

Grate Size	Shape	Series Number	Tree Opening Options (Dia.)	Number of Pieces	Options
48" (1219 mm)	Square	8580	18" (457 mm)	2	Custom lettering, security bolting
60" (1524 mm)	Square	8585	18"*, 24" (457, 610 mm)	4	Custom logo, lettering, security bolting, removable center
60" (1524 mm)	Round	8595	18"*, 24" (457, 610 mm)	4	Lettering, security bolting, removable center
60" (1524 mm)	Round/Square	8595/8585	18"*, 24" (457, 610 mm)	4	Custom logo, lettering, security bolting, removable center

* Tree opening dimension is available with or without a removable center ring.

MANHATTAN

Clean, efficient, minimalist lines are highlighted in the matrix of the Manhattan, which elicits aerial views of a thriving urban metropolis.



Houston, Texas

Manhattan Tree Grate

Grate Size (Sq.)	Series Number	Tree Opening Options (Sq.)	Number of Pieces	Options
60" (1524 mm)	8805	12", 18", 30" (305, 457, 762 mm)	2	Custom logo, access ports, security bolting
72" (1829 mm)	8681	18" (457 mm)	4	Custom logo
36" x 72" (914 x 1829 mm)	8803-2	18" (457 mm)	2	–

NOVA



Traverse City, Michigan



Grand Haven, Michigan

Nova Tree Grate

Grate Size	Series Number	Tree Opening Options (Dia.)	Number of Pieces	Options	Max. Slot Size
60" (1524 mm) sq.	8655	18"*, 30" (457, 762 mm)	4	Custom logo, special lettering, access port, removable center	1/2" (13 mm)
72" (1829 mm) sq.	8656	18"*, 30" (457, 762 mm)	2	Custom logo, special lettering, access port, removable center	1/4" (6 mm)
36" x 60" (914 x 1524 mm)	8686	16" (406 mm)	2	Custom logo, special lettering, access port	1/2" (13 mm)
36" x 72" (914 x 1829 mm)	8676	12" (305 mm)	2	Custom logo, special lettering, access port	1/2" (13 mm)

* Tree opening dimension is only available by using a removable center ring.

PLAZA



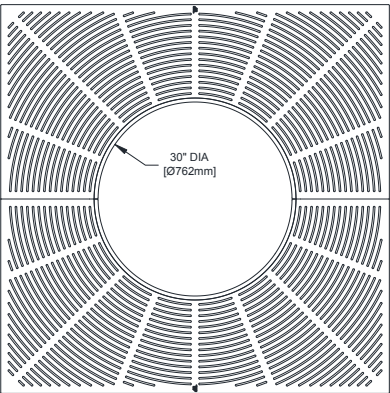
Square Plaza in Walnut Creek, California

Plaza

Available in a full range of shapes, sizes, and tree openings.
Two grates per assembly
Steel frame

Options

Custom logo, access port, security bolting, removable center rings, end grates (see page 28).



60" (1524 mm) square tree grate size with 30" (762 mm) standard tree opening

Square Plaza			
Grate Size (Sq.)	Series No.	Tree Opening Options (Dia.)	Max. Slot Size
30" (762 mm)	8952	16", 17.5", 18" (406, 445, 457 mm)	3/8" (10 mm)
36" (914 mm)	8953	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	1/4" (6 mm)
48" (1219 mm)	8954	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	1/4" (6 mm)
48" (1219 mm)	V8954-1	13", 16" (330, 406 mm)	3/8" (10 mm)
60" (1524 mm)	8955	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	1/4" (6 mm)
60" (1524 mm) Retrofit	8955R	16" (406 mm)	1/4" (6 mm)
60" (1524 mm)	V8955	16", 18" (406, 457 mm)	3/8" (10 mm)
72" (1829 mm)	8956	16"*, 18"*, 24"*, 30", 48" (406, 457, 610, 762, 1219 mm)	1/4" (6 mm)

* Tree opening dimension is available with or without a removable center ring.

Removable Center Rings:

For the 30" (762 mm) standard tree opening, 16" (406 mm), 18" (457 mm), and 24" (610 mm) removable center rings are available to accommodate tree growth. For the 24" (610 mm) standard tree opening a 16" (406 mm) removable center ring is available.



Rectangular Plaza



Rectangular Plaza

Grate Size	Series No.	Tree Opening Options (Dia.)	Max. Slot Size
36" x 60" (914 x 1524 mm)	8953-2	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	1/4" (6 mm)
36" x 60" (914 x 1524 mm)	8689	16" (406 mm)	1/4" (6 mm)
48" x 72" (1219 x 1829 mm)	8954-2	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	1/4" (6 mm)
48" x 72" (1219 x 1829 mm)	8691	16" (406 mm)	3/8" (10 mm)
48" x 108" (1219 x 2743 mm)	8954-6	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	1/4" (6 mm)
60" x 120" (1524 x 3048 mm)	8955-6	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	1/4" (6 mm)

* Tree opening dimension is available with or without a removable center ring.

Round Plaza



Round Plaza

Grate Size (Dia.)	Series No.	Tree Opening Options (Dia.)	Max. Slot Size
36" (914 mm)	8973	16"*, 18", 24" (406, 457, 610 mm)	1/4" (6 mm)
36" (914 mm)	V8943	12" (305 mm)	3/8" (10 mm)
48" (1219 mm)	8974	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	1/4" (6 mm)
48" (1219 mm)	V8944	13" (330 mm)	3/8" (10 mm)
60" (1524 mm)	8975	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	1/4" (6 mm)
60" (1524 mm)	V8945	18" (457 mm)	3/8" (10 mm)
72" (1829 mm)	8976	16"*, 18", 24", 48" (406, 457, 610, 1219 mm)	1/4" (6 mm)

* Tree opening dimension is available with or without a removable center ring.

Combination Half Round and Half Square Plaza



Combination Half Round and Half Square Plaza

Grate Size	Series No.	Tree Opening Options (Dia.)	Max. Slot Size
36" (914 mm)	8973/8953	16"*, 18", 24" (406, 457, 610 mm)	1/4" (6 mm)
48" (1219 mm)	8974/8954	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	1/4" (6 mm)
60" (1524 mm)	8975/8955	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	1/4" (6 mm)
72" (1829 mm)	8976/8956	16"*, 18", 24" (406, 457, 610 mm)	1/4" (6 mm)

* Tree opening dimension is available with or without a removable center ring.

SUNRAY



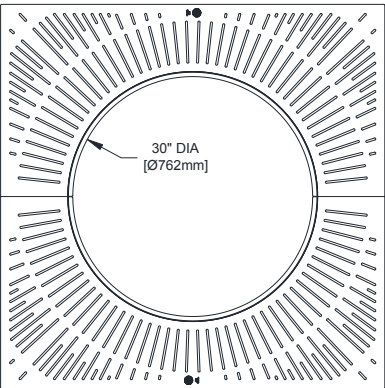
Square Sunray in Cleveland, Ohio

Sunray

Available in a full range of shapes, sizes, and tree openings.
Two grates per assembly
(8677 and 8678 are four piece designs)
Steel frame

Options

Custom logo, access port, security bolting, removable center rings, end grates (see page. 28).



48" (1219 mm) square tree grate size with 30" (762 mm) standard tree opening (shown)

Square Sunray			
Grate Size (Sq.)	Series Number	Tree Opening Options (Dia.)	Max. Slot Size
30" (762 mm)	8852	16", 18" (406, 457 mm)	1/4" (6 mm)
36" (914 mm)	8853	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	1/4" (6 mm)
48" (1219 mm)	8854	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	1/4" (6 mm)
48" (1219 mm)	8671	18"*, 24", (457, 610 mm)	3/8" (10 mm)
48" (1219 mm)	8674	18" (457 mm)	1/2" (13 mm)
60" (1524 mm)	8855	16"*, 18"*, 24"*, 30", 40" (406, 457, 610, 762, 1016 mm)	1/4" (6 mm)
60" (1524 mm)	8667	18" (457 mm)	3/8" (10 mm)
72" (1829 mm)	8856	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	1/4" (6 mm)
72" (1829 mm)	8677	18", 30" (457, 762 mm)	1/4" (6 mm)

* Tree opening dimension is available with or without a removable center ring.

Removable Center Rings:

For the 30" (762 mm) standard tree opening, 16" (406 mm), 18" (457 mm), and 24" (610 mm) removable center rings are available to accommodate tree growth. For the 24" (610 mm) standard tree opening, 16" (406 mm) and 18" (457 mm) removable center rings are available.



16" (406 mm) removable center ring



18" (457 mm) removable center ring



24" (610 mm) removable center ring

Rectangular Sunray



Rectangular Sunray

Grate Size	Series No.	Tree Opening Options (Dia.)	Max. Slot Size
36" x 60" (914 x 1524 mm)	8853-2	18" (457 mm)	1/4" (6 mm)
36" x 72" (914 x 1829 mm)	8693	18" (457 mm)	1/2" (13 mm)
48" x 72" (1219 x 1829 mm)	8695	18"*, 24"*, 30" (457, 610, 762 mm)	3/8" (10 mm)
48" x 96" (1219 x 2438 mm)	8854-4	16"†, 18"†, 24", 30" (406, 457, 610, 762 mm)	1/4" (6 mm)
60" x 96" (1524 x 2438 mm)	8855-2	16", 24" (406, 610 mm)	1/4" (6 mm)

* Tree opening dimension is available only with a removable center ring.

† Tree opening dimension is available with or without a removable center ring.

Round Sunray



Round Sunray

Grate Size (Dia.)	Series Number	Tree Opening Options (Dia.)	Max. Slot Size
48" (1219 mm)	8874	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	1/4" (6 mm)
60" (1524 mm)	8875	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	1/4" (6 mm)
72"† (1829 mm)	8876	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	1/4" (6 mm)
72"‡ (1829 mm)	8678	30" (762 mm)	1/4" (6 mm)

* Tree opening dimension is available with or without a removable center ring.

† Two piece design (8876).

‡ Four piece design (8678).

Combination Half Round and Half Square Sunray



Combination Half Round and Half Square Sunray

Grate Size	Series Number	Tree Opening Options (Dia.)
48" (1219 mm)	8874/8854	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)
60" (1524 mm)	8875/8855	16"*, 18"†, 24" *, 30" (406, 457, 610, 762 mm)
72" (1829 mm)	8876/8856	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)

* Tree opening dimension is available with or without a removable center ring.

† Tree opening dimension is available only with a removable center ring.

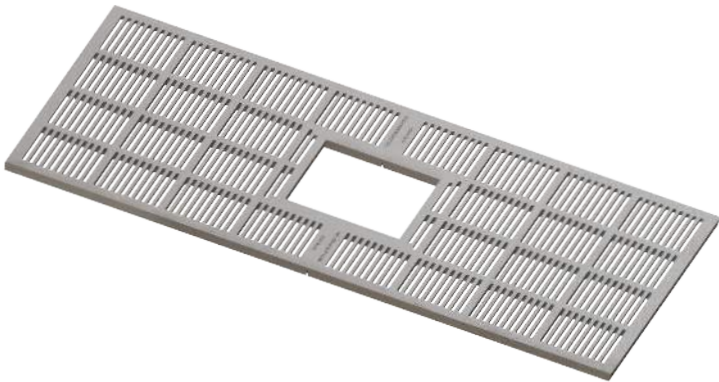
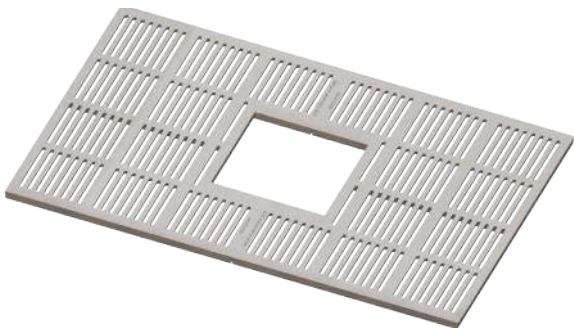
BOARDWALK



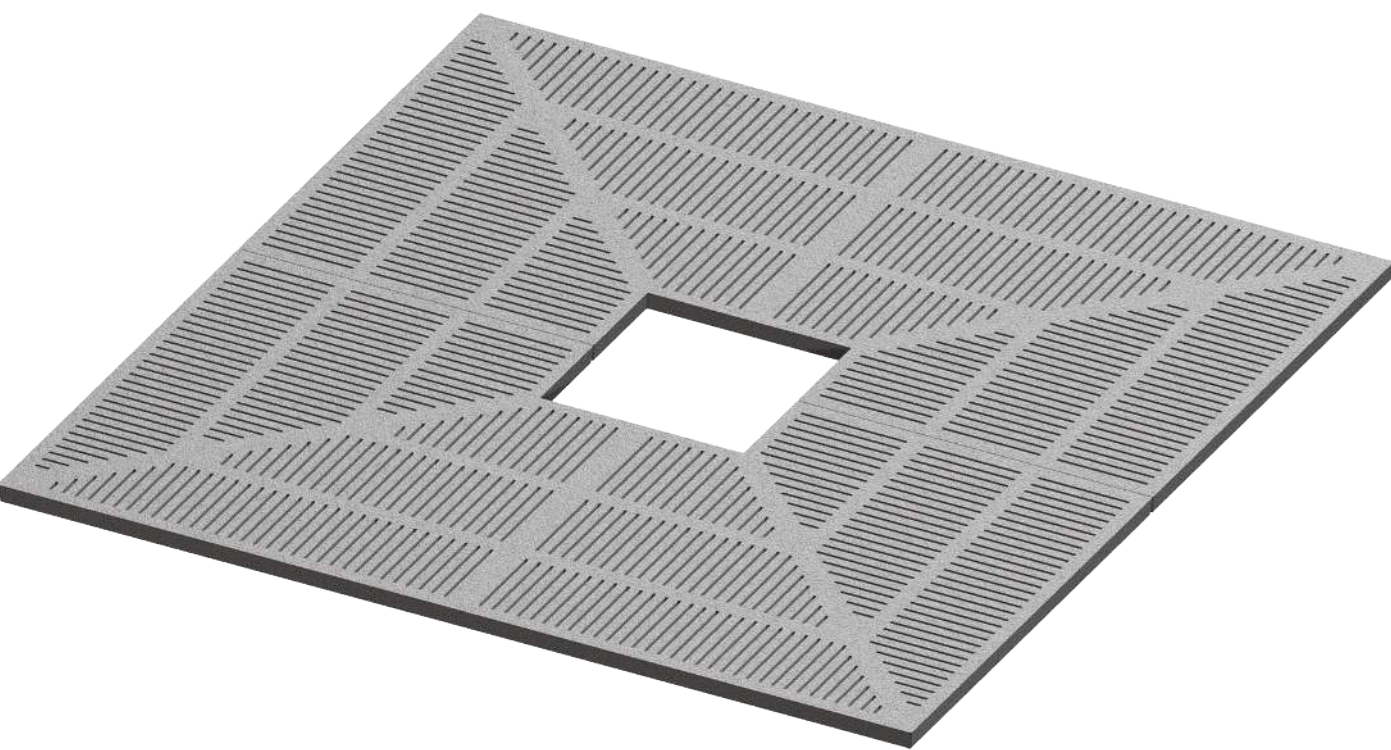
San Francisco, California

Boardwalk Tree Grate

Grate Size	Series Number	Tree Opening Options	Number of Pieces	Options
48" x 72" (1219 x 1829 mm)	8684	18" (457 mm) sq.	2	Security bolting
48" x 96" (1219 x 2438 mm)	8679	18" (457 mm) sq.	2	Access port, security bolting

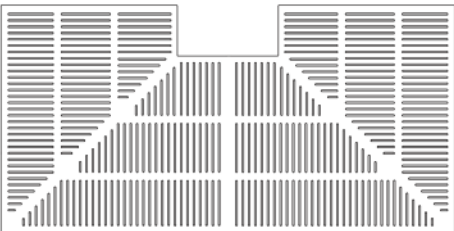


PRISM



Prism Tree Grate

Grate Size (Sq.)	Series Number	Tree Opening Options (Sq.)	Number of Pieces	Options
48" (1219 mm)	8884	16", 22" (406, 559 mm)	2	Custom logo, access port, security bolting
60" (1524 mm)	8885	24" (610 mm)	2	Custom logo, access port, security bolting, removable center
72" (1829 mm)	8886	24", 36" (610, 914 mm)	2	Custom logo, access port, security bolting, removable center



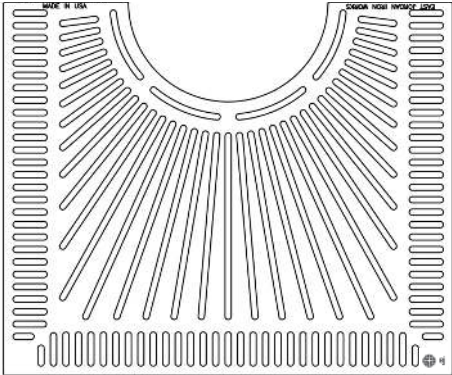
RIO



Detroit, Michigan

Rio Tree Grate

Grate Size	36" x 60" (914 x 1524 mm)
Series Number	8687
Tree Opening	16" (406 mm) dia.
Number of Pieces	2
Options	Security bolting

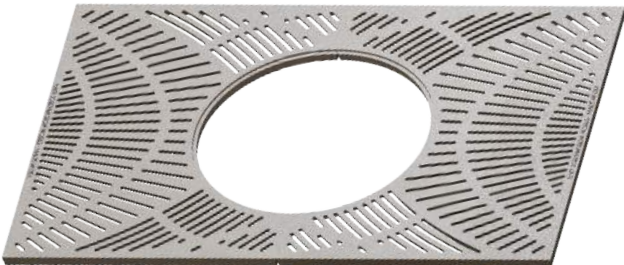


PROVENCE



Provence Tree Grate

Grate Size	48" x 72" (1219 x 1829 mm)
Series Number	8692
Tree Opening	30" (762 mm) dia.
Number of Pieces	2
Options	Access ports, removable center ring



RETROFIT TREE GRATES



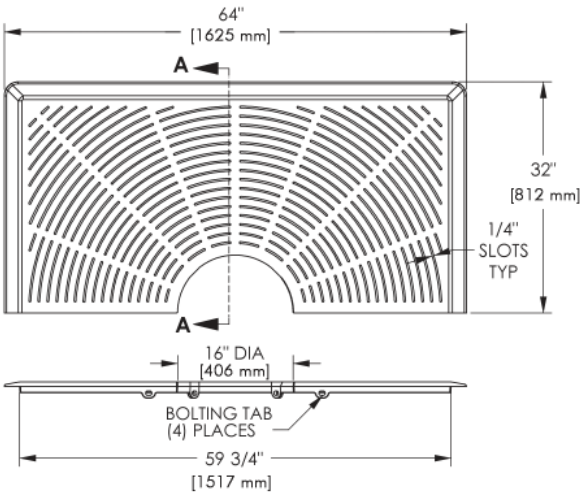
Close up section view of the retrofit tree grate. No frame required.

EJ offers a tree grate solution for retrofit applications.

For a perfect fit, simply cut the concrete to the recommended size and set the tree grate in the hole. This tree grate can also be used in new construction by forming the hole to size and eliminating the need to cut the concrete.

Retrofit Tree Grate

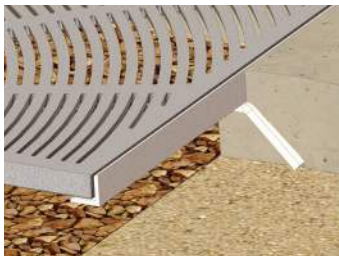
Grate Size	60" (1524 mm) sq.
Series Number	8955R
Tree Opening	16" (406 mm) dia.
Number of Pieces	2
Options	Special lettering, Custom logo, Security bolting



Tree Grate Frames

Tree grate frame options vary depending on the solution needed for your application. Most new tree grate installations utilize the frame option with anchor bars to secure the durable steel frame to the newly poured concrete. For tree grate restorations, EJ offers two different retrofit frame options to help you adjust the level of your tree grate to the ground surface.

Tight, secure, and level tree grate installations are simple with our one-piece and multi-piece frame options. Some tree grate designs may require a frame with a center support. Contact your Sales Representative for more specific information.



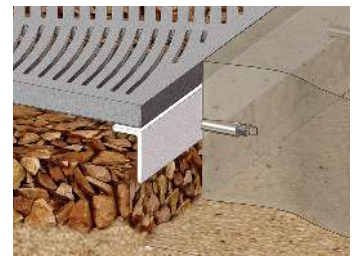
Standard for new concrete – Eight standard 1/2" x 4" (13 x 102 mm) concrete square anchor bars in frame for new concrete



Standard for pavers – Eight standard 3/8" x 4" (10 x 102 mm) concrete anchor bars in frame used with pavers in surrounding area.



Retrofit for saw cut concrete – For retrofit applications in saw cut concrete or existing curb (leg up frame orientation).



Custom applications – Custom tree grate frames are available to match your local specification. Contact your Sales Representative for more information.

End Grates

Each modular system combines a square EJ tree grate with two end grates. The larger sizes contribute to tree health and longevity by providing more underground space for roots to grow. The optional removable center rings provide for essential trunk and root collar expansion as the tree matures.

Modular tree grates from EJ can be used in conjunction with structural soil and suspended pavement systems to allow tree root penetration and maintain soil aeration under paved surfaces.

Modular tree grates allow for large sizes of:

- 4' x 8' (1219 x 2438 mm)
- 4' x 9' (1219 x 2743 mm)
- 4' x 10' (1219 x 3048 mm)
- 4' x 12' (1219 x 3658 mm)
- 5' x 8' (1524 x 2438 mm)
- 5' x 10' (1524 x 3048 mm)



48" (1219 mm) square Plaza tree grate set with 48" x 30" (1219 x 762 mm) end grates.

Specification

General

This specification is applicable for gray iron tree grate castings. All castings shall be manufactured in the United States of America by EJ. All manufacturers shall be approved suppliers prior to supplying castings.

Materials

Gray iron castings shall be manufactured from iron conforming to ASTM A48, Class 35B. The iron material used in products provided shall have a minimum recycled material content of 85%.

Manufacture

Castings shall be of uniform quality, free from sand holes, gas holes, shrinkage, cracks, and other surface defects. Castings shall be ground smooth and well cleaned by shot blasting. Castings shall be furnished unpainted or as specified by the purchaser.

Certification

A foundry certification shall be furnished to the purchaser stating that the products supplied are in accordance with this specification.

Marking

Each casting shall be identifiable and show, at a minimum, the following: name of the producing foundry, country of manufacture (such as "Made in USA"), individual part number, and cast or heat date. Castings shall include all lettering as shown on the drawings.

Tree Frames and Guards

Tree grate frames and guards shall be made in the USA and manufactured from fabricated steel.

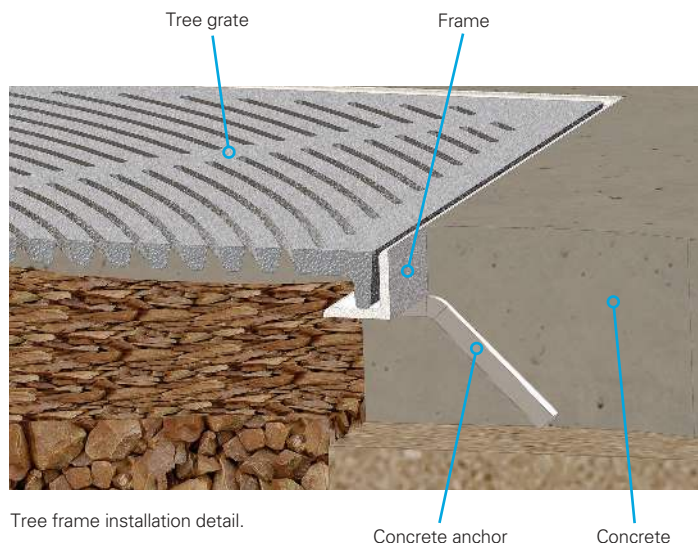
ADA Compliant Tree Grates

Castings are designed to comply with ADA (Americans with Disabilities Act) standards. The guidelines specify that grating, whether tree grates or trench grating, located in pedestrian walkways shall not allow passage of a sphere more than 1/2" (13 mm) in diameter. Additionally, if grating has elongated openings, the long dimension is to be perpendicular to the dominant direction of travel.

Installation

Tree Grate Installation Tips

1. Tree grate frames are available in one-piece or in sections. Please note that when installing around an existing tree, the frame must be supplied in multiple sections and assembled at the job location. Be sure to order the proper frame for the application.
2. A drawing that shows basic overall and inside frame dimensions should be made available prior to installation.
3. If the frame requires assembly, tighten the bolts so that the frame pieces remain level and true during installation. Multi-piece tree frames must be bolted together securely with all mating edges flush with the inside seat of the frame.
4. Square or rectangular tree grate frames must be held square while forming.
5. Measure from corner to corner; the frame should be square to within 1/8" (3 mm).
6. Inside dimensions of tree frames are designed 1/4" (6 mm) larger than outside dimensions of the associated tree grates. These inside dimensions must be maintained during installation.
7. On tree frames with center supports, use a straight edge to align supports flush with frame seat.
8. When installing tree grates and frames be sure to set the frame at the proper grade. Frames shall be formed to remain plumb, level, and square. It is recommended that spreaders,



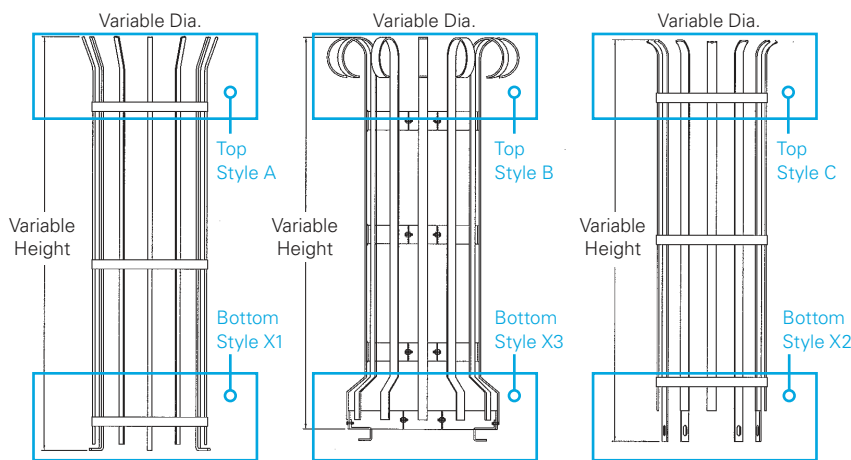
Tree frame installation detail.

9. Confirm that all fasteners (nuts, bolts, etc.) are securely tightened before final concrete pour.
- stakes, or other types of support be used when forming. This is important because the frame may shift or deform due to the weight of surrounding materials (such as concrete) if not properly supported. Do not remove the frame support formwork until concrete is cured.

Steel Tree Guards

Tree guards are fabricated from hot rolled steel in several different styles, diameters, and heights. Tree guards are fabricated in two halves, with welded connections between vertical and horizontal bars. The two halves are easily assembled and bolted together after placement around the tree.

Tree guards are supplied standard with a flat black Rustoleum® finish, but are also available powder coated, or e-coated. Standard powder coat colors are Brick Red, Yellow and Black. To specify a custom color, provide the RAL number. Custom designs can also be fabricated to meet your specifications. Our marketing and engineering team is available to help with any of your design needs.



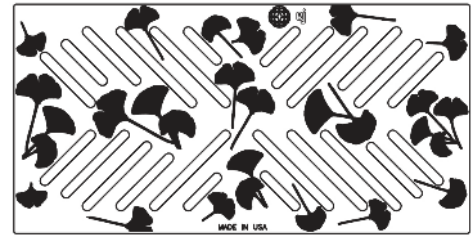
Custom fabricated tree guards

Artistic Trench Grates

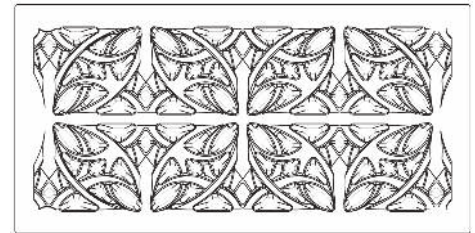
Surface drainage for dynamic public spaces require a unique solution. Make an impression with our cast iron ADA designer trench grates.

Patterns that coordinate with our exclusive tree grates are cast in 24" (610 mm) lengths, 1-1/2" (38 mm) seat. Optional 6950 cast iron frames are available in 24" (610 mm), 36" (914 mm) and 48" (1219 mm) lengths.

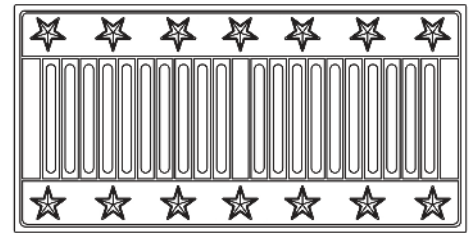
For security, bolted trench grate units are assembled in 24" (610 mm) sections using stainless steel 1/2" (12.7 mm) hex bolts and special lock washers. Call for additional widths.



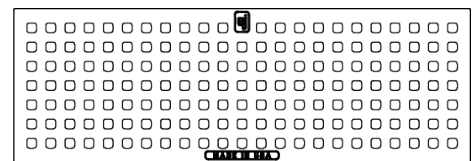
6883 Ginkgo 12" x 24" (305 x 610 mm)



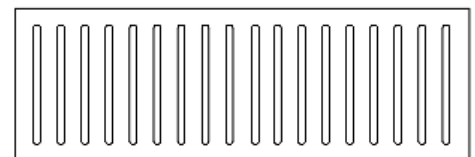
6873 Garland 12" x 24" (305 x 610 mm)



6893 Patriot 12" x 24" (305 x 610 mm)



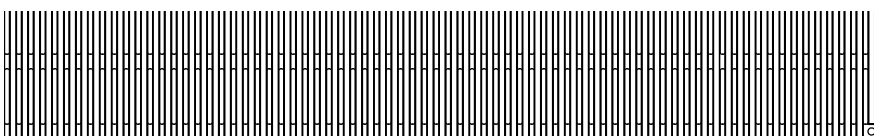
6898M Manhattan 8" x 24" (203 x 610 mm)



V7381 Trench Grate 8" x 24" (203 x 610 mm)

Artistic Trench Grates Series

Series Name	Size	Series	Options	Load Rating
Garland	12" x 24" (305 x 610 mm)	6873	Security bolting	Medium duty
Ginkgo	12" x 24" (305 x 610 mm)	6883	Security bolting	Heavy duty
Manhattan	6" x 24" (152 x 610 mm)	6897	—	Non-traffic
Manhattan	8" x 24" (203 x 610 mm)	6898	—	Non-traffic
Patriot	12" x 24" (305 x 610 mm)	6893	Security bolting	Heavy duty
Pedestrian	8" x 24" (203 x 610 mm)	V7381	Security bolting	Heavy duty
Pedestrian	8" x 48" (203 x 1219 mm)	6861	Security bolting	Heavy duty
Pedestrian	9" x 36" (229 x 914 mm)	6932	Security bolting	Heavy duty
Pedestrian	10" x 24" (254 x 610 mm)	V7382	Security bolting	Heavy duty
Pedestrian	12" x 24" (305 x 610 mm)	V7383	Security bolting	Heavy duty
Pedestrian	14" x 24" (356 x 610 mm)	V7384	Security bolting	Heavy duty
Pedestrian	17" x 24" (432 x 610 mm)	V7385	Security bolting	Heavy duty
Pedestrian	20" x 24" (508 x 610 mm)	V7386	Security bolting	Heavy duty



6861M Trench Grate 8" x 48" (203 x 1219 mm)

Pedestrian Drainage Grates

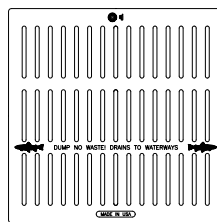
Complete your street with ADA compliant drainage grates from EJ. Available in a range of load ratings and sizes to fit any location, pedestrian drainage grates from EJ provide durability and a maximum slot size of 1/2" (13 mm) in compliance with ADA requirements.

Provide safe walking and biking surfaces and equal access for all modes of transportation, while accommodating drainage requirements on your site. Made of recycled iron or steel, EJ grates are manufactured in the USA under strict quality control guidelines. Optional lettering reminds users to protect local waterways.

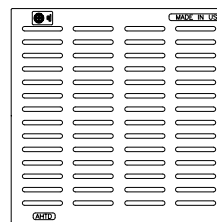


Pedestrian Drainage Grates, Sorted by Series Number

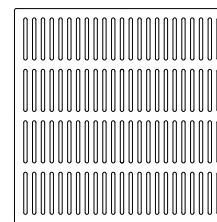
Size	Load Rating	Series Number
27 1/2" x 27 1/2" (699 x 699 mm)	Heavy duty	5110
24" x 24" (610 x 610 mm)	Heavy duty	5424
32" x 32" (813 x 813 mm)	Heavy duty	V5630-80
37 1/2" x 37 1/2" (953 x 953 mm)	Heavy duty	V5636-80
23 3/4" x 35 3/4" (603 x 908 mm)	Heavy duty	V5660-80
19 3/4" x 19 3/4" (502 x 502 mm)	Heavy duty	V5720-80
24" x 24" (610 x 610 mm)	Heavy duty	V5724-80
25 3/4" x 25 3/4" (654 x 654 mm)	Heavy duty	V5726-80
32" x 32" (813 x 813 mm)	Heavy duty	V5732-80
38 1/4" x 38 1/4" (972 x 972 mm)	Heavy duty	V5736-80
44" dia. (1118 mm dia)	Heavy duty	1843
13 5/8" x 13 5/8" (346 x 346 mm)	Heavy duty	8201



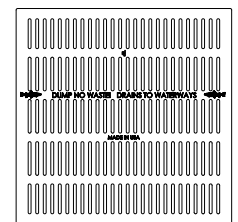
5110M5HD



5424



V-5630-80



V5636-80

Infill Floor Doors

Infill floor doors by EJ provide a sturdy, durable way to seamlessly integrate your paver or concrete design across the site. Maintain the flow and identity of streetscapes, campus, or park landscapes. Infill hatches accommodate pavers of varying heights or concrete to match your creativity.

Like the outstanding quality and longevity of non-traffic aluminum hatches by EJ, our infill hatches utilize superior grade stainless steel hardware.

With a variety of security locking options, you can be sure that your underground infrastructure will remain undisturbed. The smooth and durable stainless steel pneumatic spring lift assist enables easy opening. The hold open arm or optional safety grate ensures safe working conditions.

Infill hatches are currently available in a variety of sizes.



Infill Floor Doors

Part Number	Clear Opening	Outside Dimension	Infill Depth	Infill Material	Load Rating
H24243801	24" x 24" (610 x 610 mm)	32" (813 mm) sq.	1" (25 mm)	Pavers or Concrete	Non-traffic, Pedestrian
H30303801	30" x 30" (762 x 762 mm)	38" (966 mm) sq.	1" (25 mm)	Pavers or Concrete	Non-traffic, Pedestrian
H30365007	30" x 36" (762 x 914 mm)	38" x 44" (965 x 1118 mm)	2" (51 mm)	Concrete	Unintended Vehicular Traffic
H36363801	36" x 36" (914 x 914 mm)	44" x 44" (1118 mm) sq.	1" (25 mm)	Pavers, Stone or Concrete	Light Duty 300PSF
H36603806	36" x 60" (914 x 1524 mm)	44" x 68" (1118 x 1728 mm)	1 1/2" (38 mm)	Pavers or Concrete	Non-traffic, Pedestrian
H36723806	36" x 72" (914 x 1829 mm)	44" x 80" (1118 x 2032 mm)	1 1/2" (38 mm)	Pavers or Concrete	Non-traffic, Pedestrian

Note: Standard sizes listed. Contact your local Sales Representative for additional options and sizes.

Product Lines

Access Covers, Grates and Frames

- Manhole Covers and Frames
- Innovative Access Solutions
- Composite Manhole Covers and Frames
- Drainage Grates, Frames and Curb Inlets
- Linear Trench Drainage Grates
- Junction Boxes
- Cleanout/Monument Boxes

Access Hatches

- Aluminum Access Hatches
- Modular Access Solutions
- Custom Fabrication

Adjustment Risers

- Riser Rings
- INFRA-RISER® Adjustment Risers

Water Distribution

- WaterMaster® Fire Hydrants
- FlowMaster® RW Gate Valves
- Valve Boxes, Covers and Risers
- Meter Boxes

Streetscape and Urban Design

- Tree Grates
- Designer Trench Drainage Grates
- DURALAST® Detectable Warning Plates



DURALAST, FlowMaster, INFRA-RISER, and WaterMaster are registered trademarks of EJ Group, Inc.

Environmentally Friendly

As a good neighbor, we are committed to global sustainability and strive to be respectful stewards in the communities where we operate. EJ conducts business around the world in compliance with regional environmental legislation and approved codes of practice.

We understand that "being green" is not just a saying; it's a critical guiding principal that is exemplified in the way we conduct business:

- Creating partnerships with the communities in which we operate.
- Using best in class environmental abatement technologies to contain and reduce our emissions.
- Facilities that use processes and controls to minimize our impact on the environment.
- Continuously improving efficiencies and reducing internal waste streams.
- Encouraging the use of castings in their natural state without coatings or paint; knowing that over time iron gains a natural patina that resists rust and corrosion.
- Designing innovative products that use less material, yet still maintain the structure integrity and load rating.
- Universal wastes, including computers, lamps and batteries, are collected and properly recycled.



85% Recycled Content

Our castings contain over 85% recycled content and our foundries meet some of the most stringent environmental regulations in the world. Products produced at our foundries are 100% recyclable.

[Post-consumer and post-industrial scrap metals are recycled into castings that build your infrastructure.](#)



Recycled Tires

Recycled tires make up the majority of our INFRA-RISER® multi-purpose rubber composite adjustment risers. Boasting 92% recycled content, this environmentally friendly product also reduces unwanted storm water infiltration into sanitary sewer systems.



Molding Sand

Over 90% of our green sand is reclaimed daily and reused in our molding process. Foundry sands are recycled for use in cement production at nearby facilities.



Messaging

Environmentally friendly messaging helps protect our waterways. Castings read "Dump No Waste! Drains to Waterways" accompanied by a fish image. These permanently cast messages and environmentally friendly designs serve as an enduring reminder against dumping into our waterways.

Awards:

- Charlevoix County Recycler of the Year 2007
- Emmet County Recycler of the Year 2012
- American Foundry Society Metalcaster of the Year 2019

DURALAST® DETECTABLE WARNING PLATES

DURALAST Detectable Warning Plates serve as a warning device for the visually impaired of the approaching street. Engineered to outlast the sidewalk, this long-lasting cast iron product withstands rigorous urban conditions, such as snow plows, street cleaning machines, and vehicular traffic. Lower your maintenance and product life cycle costs by using cast iron DURALAST Detectable Warnings—your ADA compliant and environmentally friendly solution.

ADA Compliant

- Natural finish meets color contrast requirements
- Slip resistant textured surface – greater than 0.8 coefficient of friction
- DOT approved (contact your local sales representative for specification approvals)
- Bolting ensures compliance during installation

Durable and Cost Effective

- Over 500 times more durable than composite
- Engineered to outlast the sidewalk — long-lasting and corrosion resistant
- Easy to install
- Maintenance free

Made in the USA from Recycled Materials

- Eligible to earn LEED® points in the Materials and Resources category
- Cast iron is an environmentally responsible product that is completely recyclable after its useful life

Product Testing

Maintenance free cast iron detectable warnings are designed to fully comply with the Americans with Disabilities Act (ADA) Standards and AASHTO M 333-16. Contact your EJ Sales Representative for additional information.



DURALAST detectable warning plates are ADA compliant. Their durability helps ensure compliance for years to come.

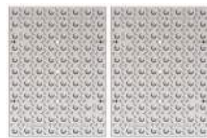
Square and Rectangular Sizes

Size	Standard Bolt	I-LOK
18" x 24"	00700561	—
24" x 24"	00700571	00700471
30" x 24"	00700721	00700421

Radial Sizes

Size	Product No.
10'	00700611
15'	00700615
17 1/2'	00700617
20'	00700621
25'	00700625
30'	00700631
35'	00700635

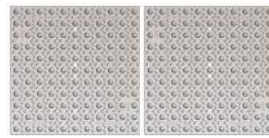
3' Ramp



18" x 24"

18" x 24"

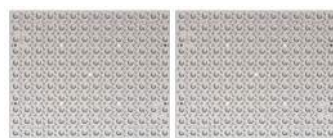
4' Ramp



24" x 24"

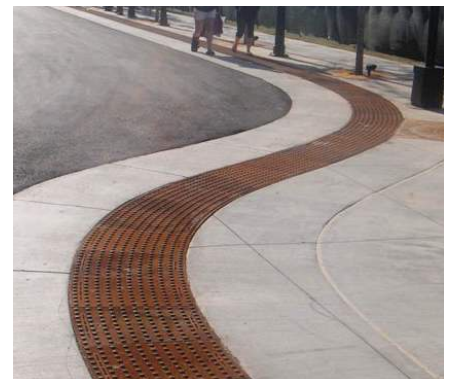
24" x 24"

5' Ramp



30" x 24"

30" x 24"



Radial plates are available in a variety of sizes and designed to fit your unique curb line.

Test Results

Physical Properties	Results	Specification
Slip Resistance	1.10 Dry / 1.06 Wet	ASTM C-1028
Wear Resistance (Abrasion)	7333	ASTM C-501-84
Impact Resistance	>238 Newtons	ASTM D-1709
Tensile Strength	35,000 PSI	ASTM A-48
Design Compliance	Fully Compliant	AASHTO M333-16, ADA

Over 500 times more durable than composite* 10 Year Limited Warranty

DURALAST
7333
Wear Index

Composite
13.7
Wear Index

*Testing performed by 3rd party, ABIC Testing Laboratories, Inc.

Try the Detectable Warning Plate Radius Calculator on ejco.com

ROUND TREE GRATES

Grate Size	Series Name	Series No.	Tree Opening Options	Standard Frame*
36" (914 mm)	Plaza	8973	16", 18", 24" (406, 457, 610 mm)	TF36RD2000
36" (914 mm)	Plaza	V8943	12" (305 mm)	TF36RD2000
48" (1219 mm)	Plaza	8974	16", 18", 24", 30" (406, 457, 610, 762 mm)	TF48RD2000
48" (1219 mm)	Plaza	V8944	13" (330 mm)	TF48RD2000
48" (1219 mm)	Sunray	8874	16", 18", 24", 30" (406, 457, 610, 762 mm)	TF48RD2000
60" (1524 mm)	Mesa	8591	16" (406 mm)	TF60RD2100
60" (1524 mm)	Orbit	8595	18", 24" (457, 610 mm)	TF60RD2000
60" (1524 mm)	Patriot	8590	16 3/8" (416 mm)	TF60RD2100
60" (1524 mm)	Plaza	8975	16", 18", 24", 30" (406, 457, 610, 762 mm)	TF60RD2000
60" (1524 mm)	Plaza	V8945	18" (457 mm)	TF60RD2000
60" (1524 mm)	Sunray	8875	16", 18", 24", 30" (406, 457, 610, 762 mm)	TF60RD2000
60" (1524 mm)	Trademark	8592	18" (457 mm)	TF60RD2100
72" (1829 mm)	Plaza	8976	16", 18", 24", 48" (406, 457, 610, 1219 mm)	TF72RD2000
72" (1829 mm)	Sunray	8876	16", 18", 24", 30" (406, 457, 610, 762 mm)	TF72RD2000
72" (1829 mm)	Sunray	8678	30" (762 mm)	TF72RD2300

Part numbers shown are for standard tree grate frames with an anchor, for use in new concrete installation. Additional frame options are available upon request.

* Tree opening dimension is available with or without a removable center ring.

† Tree opening dimension is available only with a removable center ring.

RECTANGULAR TREE GRATES

Grate Size	Series Name	Series No.	Tree Opening Options (dia.)	Standard Frame*
36" x 60" (914 x 1524 mm)	Garland	8698	15" (381 mm) sq.	TF36602000
36" x 60" (914 x 1524 mm)	Nova	8686	16" (406 mm)	TF36602000
36" x 60" (914 x 1524 mm)	Plaza	8953-2	16", 18", 24", 30" (406, 457, 610, 762 mm)	TF36602000
36" x 60" (914 x 1524 mm)	Plaza	8689	16" (406 mm)	TF36602000
36" x 60" (914 x 1524 mm)	Sunray	8853-2	18" (457 mm)	TF36602000
36" x 60" (914 x 1524 mm)	Rio	8687	16" (406 mm)	TF36602000
36" x 72" (914 x 1829 mm)	Manhattan	8803-2	18" (457 mm)	TF36722000
36" x 72" (914 x 1829 mm)	Nova	8676	12" (305 mm)	TF36722000
36" x 72" (914 x 1829 mm)	Sunray	8693	18" (457 mm)	TF36722000
48" x 72" (1219 x 1829 mm)	Boardwalk	8684	18" (457 mm) sq.	TF48722000
48" x 72" (1219 x 1829 mm)	Plaza	8954-2	16", 18", 24", 30" (406, 457, 610, 762 mm)	TF48722000
48" x 72" (1219 x 1829 mm)	Plaza	8691	16" (406 mm)	TF48722000
48" x 72" (1219 x 1829 mm)	Provence	8692	30" (762 mm)	TF48722000
48" x 72" (1219 x 1829 mm)	Sunray	8695	18"†, 24"†, 30" (457, 610, 762 mm)	TF48722000
48" x 96" (1219 x 2438 mm)	Boardwalk	8679	18" (457 mm) sq.	TF48962000
48" x 96" (1219 x 2438 mm)	Sunray	8854-4	16", 18", 24", 30" (406, 457, 610, 762 mm)	TF48962000
60" x 96" (1524 x 2438 mm)	Sunray	8855-2	16", 24" (406, 610 mm)	TF60962000
48" x 108" (1219 x 2743 mm)	Plaza	8954-6	16", 18", 24", 30" (406, 457, 610, 762 mm)	TF481081000
60" x 120" (1524 x 3048 mm)	Plaza	8955-6	16", 18", 24", 30" (406, 457, 610, 762 mm)	TF601202000

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SQUARE TREE GRATES

Grate Size	Series Name	Series No.	Tree Opening Options (Dia.)	Standard Frame*
30" (762 mm)	Plaza	8952	16", 17.5", 18" (406, 445, 457 mm)	TF30302000
30" (762 mm)	Sunray	8852	16", 18" (406, 457 mm)	TF30302000
36" (914 mm)	Plaza	8953	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	TF36362000
36" (914 mm)	Sunray	8853	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	TF36362000
48" (1219 mm)	Ginkgo	8581	15" (381 mm)	TF48482100
48" (1219 mm)	Orbit	8580	18" (457 mm)	TF48482000
48" (1219 mm)	Plaza	8954	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	TF48482000
48" (1219 mm)	Plaza	V8954-1	13", 16" (330, 406 mm)	TF48482000
48" (1219 mm)	Prism	8884	16", 22" (406, 559 mm)	TF48482000
48" (1219 mm)	Sunray	8854	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	TF48482000
48" (1219 mm)	Sunray	8671	18"*, 24" (406, 610 mm)	TF48482000
48" (1219 mm)	Sunray	8674	18" (457 mm)	TF48482000
60" (1524 mm)	Chelsea	8583	18" (457 mm)	TF60602100
60" (1524 mm)	Foliage	8582	18" (457 mm)	TF60602100
60" (1524 mm)	Manhattan	8805	12", 18", 30" (305, 457, 762 mm)	TF60602000
60" (1524 mm)	Metropolis	8584	18" (457 mm) sq.	TF60602200
60" (1524 mm)	Nova	8655	18"+, 30" (457, 762 mm)	TF60602300
60" (1524 mm)	Orbit	8585	18"*, 24" (457, 610 mm)	TF60602000
60" (1524 mm)	Plaza	8955	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	TF60602000
60" (1524 mm)	Prism	8885	24" (610 mm)	TF60602000
60" (1524 mm)	Sunray	8855	16"*, 18"*, 24"*, 30", 40" (406, 457, 610, 762, 1016 mm)	TF60602000
60" (1524 mm)	Sunray	8667	18" (457 mm)	TF60602000
60" (1524 mm)	Plaza-Retrofit	8955R	16" (406 mm)	n/a
60" (1524 mm)	Plaza	V8955	16", 18" (406, 457 mm)	TF60602000
72" (1829 mm)	Foliage	8926	18", 24" (457, 610 mm)	TF72722000
72" (1829 mm)	Manhattan	8681	18" (457 mm)	TF72722200
72" (1829 mm)	Nova	8656	18"+, 30" (457, 762 mm)	TF72722000
72" (1829 mm)	Plaza	8956	16"*, 18"*, 24"*, 30", 48" (406, 457, 610, 762, 1219 mm)	TF72722000
72" (1829 mm)	Prism	8886	24", 36" (610, 914 mm)	TF72722000
72" (1829 mm)	Sunray	8856	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	TF72722000
72" (1829 mm)	Sunray	8677	18", 30" (457, 762 mm)	TF72722300

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COMBINATION HALF ROUND AND HALF SQUARE TREE GRATES

Grate Size	Series Name	Series No.	Tree Opening Options (Dia.)	Standard Frame*
36" (914 mm)	Plaza	8973/8953	16"*, 18", 24" (406, 457, 610 mm)	TF36SR2000
48" (1219 mm)	Plaza	8974/8954	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	TF48SR2000
48" (1219 mm)	Sunray	8874/8854	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	TF48SR2000
60" (1524 mm)	Orbit	8595/8585	18"*, 24" (457, 610 mm)	TF60SR2000
60" (1524 mm)	Plaza	8975/8955	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	TF60SR2000
60" (1524 mm)	Sunray	8875/8855	16"*, 18"+, 24"*, 30" (406, 457, 610, 762 mm)	TF60SR2000
72" (1829 mm)	Plaza	8976/8956	16"*, 18", 24" (406, 457, 610 mm)	TF72SR2300
72" (1829 mm)	Sunray	8876/8856	16"*, 18"*, 24"*, 30" (406, 457, 610, 762 mm)	TF72SR2300

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