

PRODUCT CATALOG



EVERGRATE

Durable. Dependable. Design.

A DIVISION OF J.R. HOE



About Us

J.R. Hoe, Founder, 1909

A Legacy of Quality

Evergrate is a division of J.R. Hoe. Operating out of Middlesboro, KY since 1909, J.R. Hoe is a versatile, quality-focused manufacturer of cast iron and fabricated steel products supplying a wide range of industries throughout North America. As a 5th generation family-owned company, J.R. Hoe has developed a reputation for exceptional products and service through an enduring commitment to quality, hard work and customer satisfaction. Evergrate brand products are 100% designed, engineered and manufactured in the USA using materials procured from domestic sources.

Solutions Built to Sustain

With Evergrate products, the connectivity of stormwater drainage facilities in the streetscape setting is made seamless and practical. Trench drain, curb openings and downspout adapters are utilized compatibly to carry runoff through sidewalks and curbs, into and out of roadways to green infrastructure and natural drainage areas. By providing exceptionally versatile stormwater solutions in the pedestrian right-of-way, Evergrate products help enable the design of streetscapes that meet today's safety, mobility and sustainability goals.



USGBC
MEMBER

From materials sourcing and production to order processing and shipment, Evergrate products are manufactured and supplied with a strong commitment to environmental sustainability. Evergrate employs a strategy of continuous improvement in striving to reduce the energy and resource demands of our operations while maximizing the use of recycled materials and energy efficient practices to the greatest extent possible.



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All Evergrate products are manufactured from materials with unparalleled durability – iron, steel, stainless steel – all of domestic origin.

5 Trench Drain

Designed to connect with Evergrate curb openings and downspout boot castings, Evergrate trench drains offer a versatile stormwater management solution.

7 Trench Drain Accessories

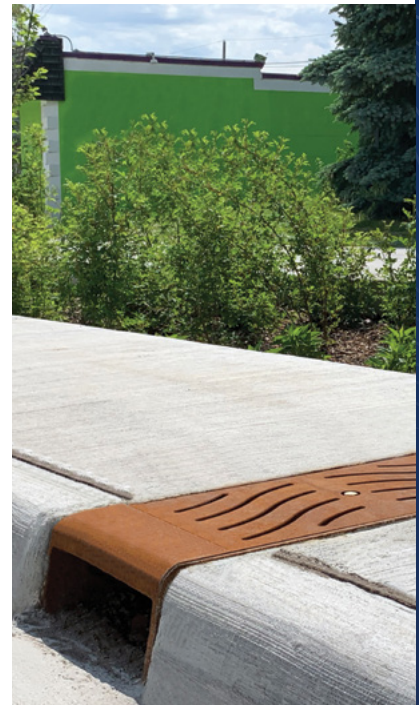
Special frame sections allow directional changes while prefabricated end plates and couplings provide a wide range of connection options.

9 Curb Openings

Cast iron curb openings prevent concrete curb damage while enhancing the visual appeal of the streetscape.

13 Downspout Boots

Evergrate cast iron downspout boots are engineered for below grade trench and pipe connections, allowing roof drainage to be directed to roadways, parking lots or green infrastructure.



Material Specifications

100% American Made

All Evergrate products are:

- 100% manufactured in the USA. Location: Middlesboro, KY
- Compliant with Buy America standards, meeting all AIS and BABAA requirements.
- Manufactured from materials with unparalleled durability – iron, steel, stainless steel all of domestic origin.



Recycled Content

All Evergrate products are:

- Manufactured using an average of approximately 85% recycled content.
- 100% Recyclable at the end of their life cycle.
- In-plant recycling – all iron and steel drops, cutoffs and rejects are remelted on-site.



USGBC
MEMBER

Cast Iron

Known for exceptional durability and high compressive strength, ASTM A48 Class 30B gray iron is also among the most corrosion resistant of all construction materials.

As cast iron is exposed to the elements it will oxidize, or rust. The oxidation of carbon-based metals like cast iron will transition from orange to dark brown colors over time, depending on age and exposure. The cast iron then develops an oxide layer, or patina, on its surface which acts as a corrosion resistant, visually appealing and 100% maintenance-free finish.

Cast Iron Components: Trench Grates, Curb Openings, Downspout Boots

Fabricated Steel

Evergrate trench frames are fabricated from A36 Mild Steel, also known as carbon steel. All steel utilized in Evergrate products is procured from domestic sources and consists of approximately 96.8% recycled content. Our steel fabrication division is certified by the American Institute of Steel Construction, whose certification programs represent the highest quality standard for steel fabrication in the infrastructure sector.

Fabricated Steel Components: Trench Frames,
Trench Frame End Caps

Stainless Steel

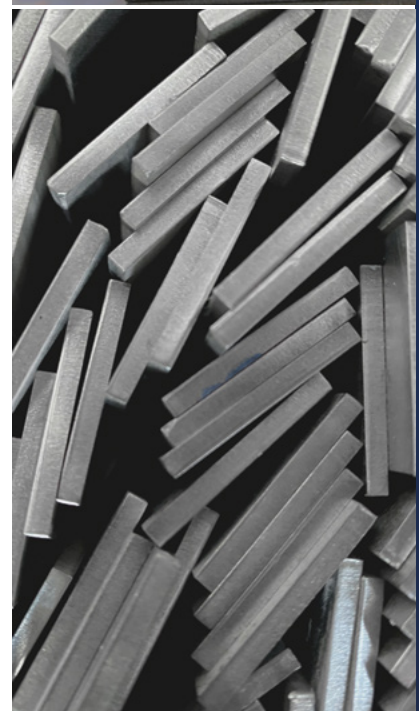
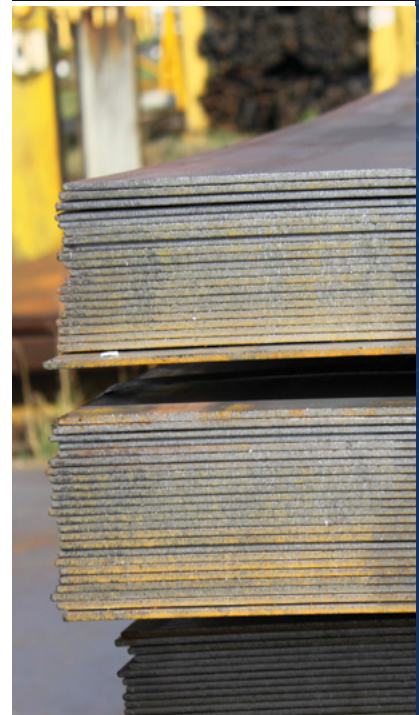
The heavy duty stainless steel center-locking device that comes standard on all Evergrate trench grates is machined in-house from domestically sourced stainless steel. For this critical anti-theft feature, the use of stainless steel ensures maximum longevity and optimal long term functionality.

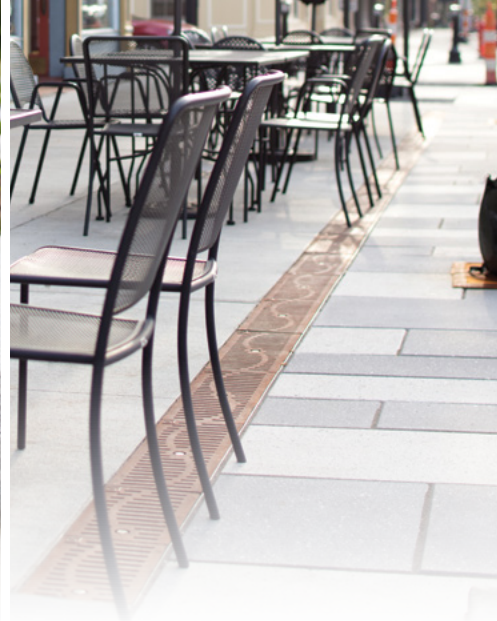
Stainless Steel Components: Center-locking Device
for Cast Iron Grates

Coatings

Powder Coating – 2-coat powder coating system consisting of a zinc-epoxy primer base coat and exterior grade polyester color coat. Choose from 12 standard colors. All iron and steel components are offered powder coated, providing a high quality, aesthetically pleasing finish.

Hot Dip Galvanizing – hot dip galvanizing introduces a zinc layer over the steel that protects the surface by acting as a barrier between steel and the atmosphere. Adhering to the ASTM A123 standard, galvanized steel is widely known to last decades if not longer, even in the harshest of environments.





Trench Drains

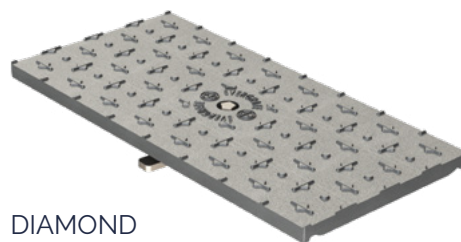
Evergrate trench drain comes standard with a precision-machined center locking device and is compatible with Evergrate curb openings and downspout boots, providing a high quality sidewalk drainage system with virtually limitless possibilities.

Trench Grates

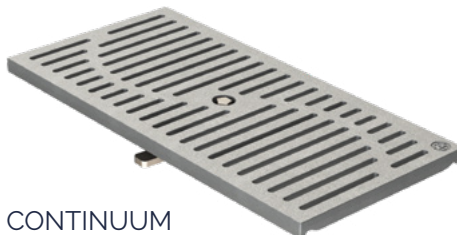
All Evergrate trench grates are made from ASTM A48 Class 30B cast iron and furnished with a precision-machined stainless steel center locking device. Available in various widths in lengths of 18" and 24", Evergrate trench grates are ADA compliant and designed for pedestrian safety and functional efficiency in urban environments.



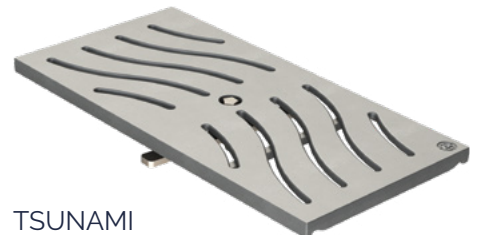
METRO



DIAMOND



CONTINUUM



TSUNAMI



ANGLE FRAME



CHANNEL FRAME

Trench Frames

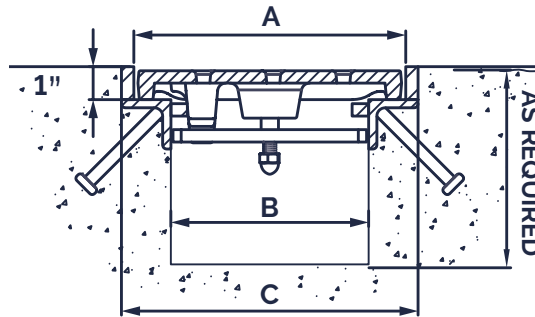
Evergrate trench frame is offered in 2 unique styles to serve a wide range of applications. Both are manufactured from A36 Mild Steel and feature a specialized design compatible with the center locking device of the cast iron grates.

Angle Frame – providing a bearing surface for the cast iron grates, the trench is formed and poured from concrete in the field. Ideal for conditions with sloped or irregular elevations and long trench runs.

Channel Frame – serves as a fully formed steel trench eliminating the labor associated with building forms for concrete trench. Ideal for neutral slope trench drain and decorative paver applications.

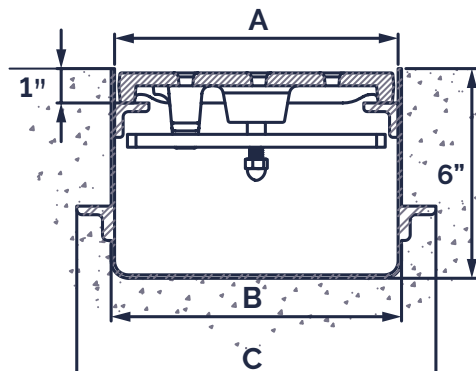
Angle Frame Measurements

Product	A	B	C
T-06A	6 1/4"	4"	7"
T-08A	8 1/4"	6"	9"
T-12A	12 1/4"	10"	11"
T-14A	14 1/4"	12"	15"



Channel Frame Measurements

Product	A	B	C
T-06C	6 1/4"	6 5/8"	8 1/2"
T-08C	8 1/4"	8 5/8"	10 1/2"
T-12C	12 1/4"	12 5/8"	14 1/2"
T-14C	14 1/4"	14 5/8"	16 1/2"





Accessories

Durable steel end plates provide a finished edge, excellent protection and effective drainage connections for various end conditions.

Channel Frame End Plates



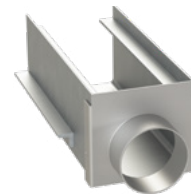
CLOSED



DS BOOT
CONNECTION



CURB FACE



PIPE
CONNECTION

- Supplied in loose pieces
- Fastened to the frame in the field with #12-14 x 1 Tek screws (included)
- Powder coat finish
- 12" & 14" pipe connection end plates feature dual spigots



Channel Frame Coupling
for securing consecutive sections of channel frame.

Angle Frame End Plates



CLOSED



DS BOOT
CONNECTION



CURB FACE



PIPE
CONNECTION

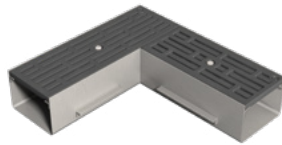
- Supplied pre-welded on 18" frame pieces
- Powder coat finish
- 12" & 14" pipe connection end plates feature dual spigots

Frame Variations

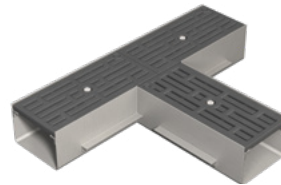
Evergrate channel and angle frames are available in 45 and 90 degree turns as well as T-sections enabling directional flexibility in pedestrian zones.



CHANNEL 45°



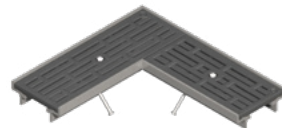
CHANNEL 90°



CHANNEL T



ANGLE 45°



ANGLE 90°



ANGLE T

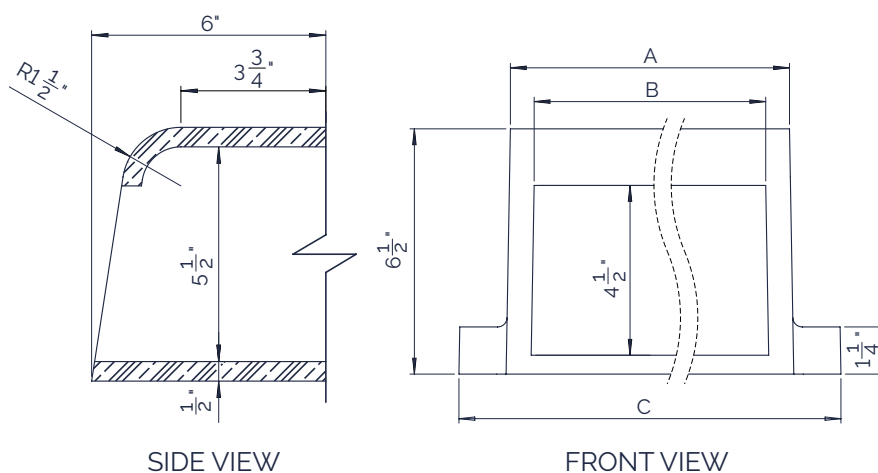


Curb Openings

Whether connecting to trench drain, soil pipes, or discharging directly into a natural drainage area, Evergrate cast iron curb openings provide essential protection and visual appeal at the curb line.

Curb Openings Size Chart

Dimension	A	B	C
6" Curb Opening	7 5/8"	6 5/16"	10 1/18"
8" Curb Opening	9 5/8"	8 5/16"	12 1/18"
12" Curb Opening	13 5/8"	12 5/16"	16 1/18"
14" Curb Opening	15 5/8"	14 5/8"	18 1/18"



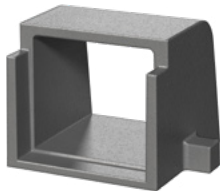
Each curb opening features the same design and profile in the front. In the rear various options exist for different types of drainage connections. (See next page)



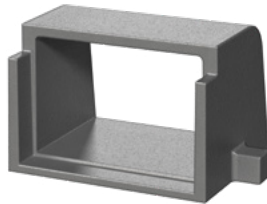
Trench Connection

**3D Renderings Represent
Rear Views of Each Curb Opening*

Compatible with both Angle frame and Channel frame, this curb opening is designed for a rear connection with Evergrate trench drain.



C-646T
(6" wide)



C-846T
(8" wide)



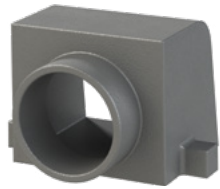
C-1246T
(12" wide)



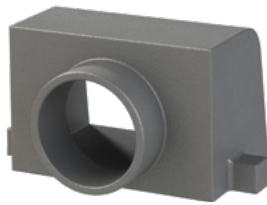
C-1446T
(14" wide)

Pipe Connection

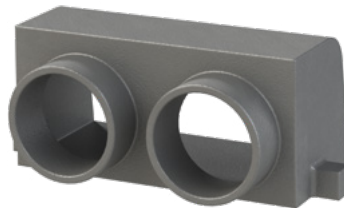
The rear spigot of the curb opening is engineered to fit a 4" soil pipe either by inserting it into the round opening and sealing around or securing with a 4" to 4" rubber adapter.



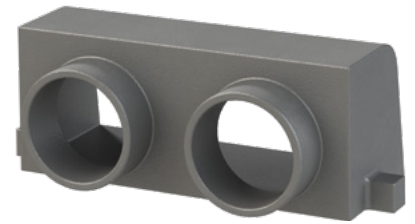
C-646P
(6" wide)



C-846P
(8" wide)



C-1246P
(12" wide)



C-1446P
(14" wide)

Flush Back

Flat in the back to be flush with a typical isolated curb, these curb openings allow runoff to flow through the curb directly into a natural drainage area or flume.



C-646F
(6" wide)



C-846F
(8" wide)



C-1246F
(12" wide)



C-1446F
(14" wide)

Large Curb Openings

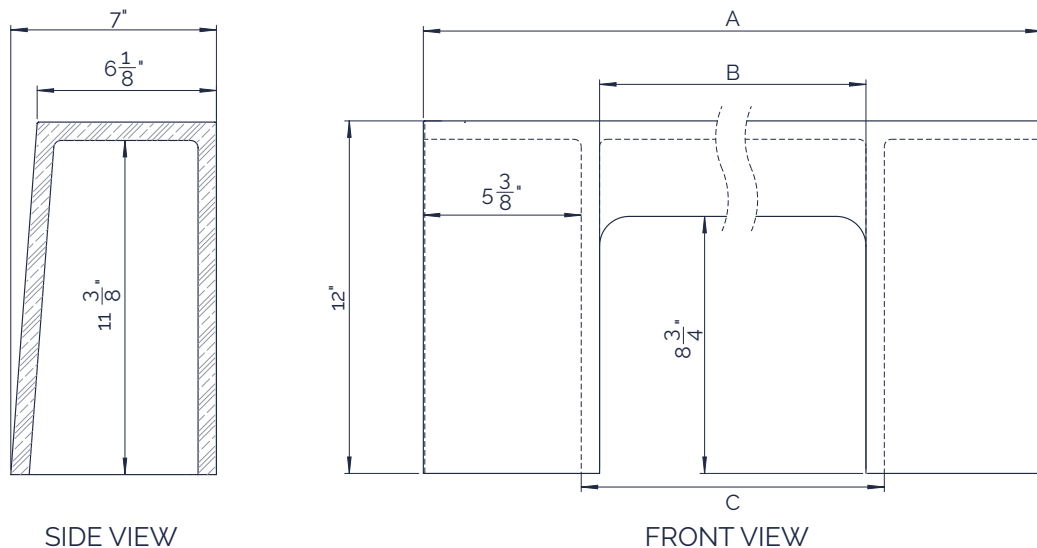
When green infrastructure installments such as bioretention cells, roadside swales and stormwater medians are located adjacent to roadways, large curb openings are required to divert significant runoff volumes through the curb and into the stormwater system.

**Custom Lettering Available*



Large Curb Openings Size Chart

Product	A	B	C
C-1846F	30"	18"	19 1/4"
C-2446F	36"	24"	25 1/4"
C-3646F	48"	36"	37 1/4"







Downspout Boots

The purpose of cast iron downspout boots is to connect the light gauge downspout on the exterior of a building with the below ground drainage system, providing exceptional durability and impact resistance in the process. With Evergrate downspout boots, building drainage can be seamlessly diverted into a trench drain or soil pipe and routed across the pedestrian right of way to discharge at the curb or into a natural drainage area. A vast size range is offered to accommodate virtually any commercial size downspouts.



SQUARE
DOWNSPOUT
TO TRENCH



ROUND
DOWNSPOUT
TO TRENCH



SQUARE
DOWNSPOUT
TO PIPE

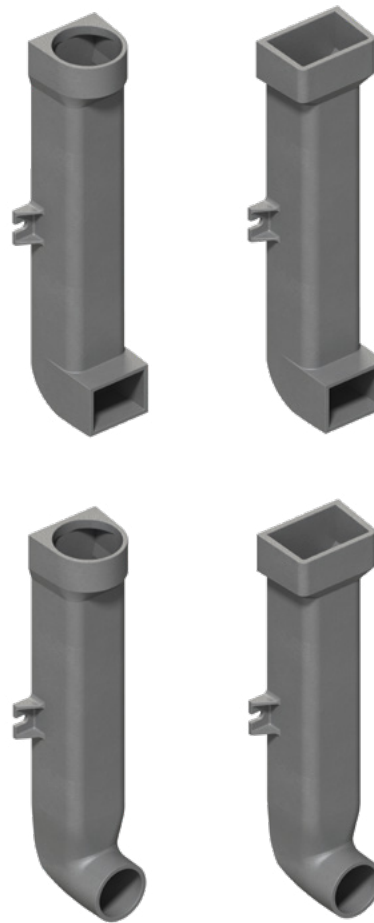


ROUND
DOWNSPOUT
TO PIPE

Downspout Boots Size Chart

Series	Top Bell	Bottom Outlet
E-34	3" x 4"	4 3/4" x 4 1/2"
E-44	4" x 4"	4 3/4" x 4 1/2"
E-R4	4" Diameter	4 3/4" x 4 1/2"
E-35	3" x 5"	4 3/4" x 4 1/2"
E-45	4" x 5"	5 3/4" x 4 1/2"
E-46	4" x 6"	5 3/4" x 4 1/2"
E-55	5" x 5"	5 3/4" x 4 1/2"
E-R5	5" Diameter	5 3/4" x 4 1/2"
E-56	5" x 6"	7 5/8" x 4 1/2"
E-57	5" x 7"	7 5/8" x 4 1/2"
E-66	6" x 6"	7 5/8" x 4 1/2"
E-R6	6" Diameter	7 5/8" x 4 1/2"
N-R3	3" Diameter	4 1/4" Diameter
N-34	3" x 4"	4 1/4" Diameter
N-44	4" x 4"	4 1/4" Diameter
N-R4	4" Diameter	4 1/4" Diameter
N-35	3" x 5"	4 1/4" Diameter
N-45	4" x 4"	4 7/8" Diameter
N-46	4" x 6"	4 7/8" Diameter
N-55	5" x 5"	4 7/8" Diameter
N-R5	5" Diameter	4 7/8" Diameter
N-56	5" x 6"	5 7/8" Diameter
N-66	6" x 6"	5 7/8" Diameter
N-R6	6" Diameter	5 7/8" Diameter

- Available Lengths: 16", 20", 24", 28", 32", 36", 40", 48", 60", 72"
- Units over 40" in length supplied in 2 piece assembly
- Cleanout available on sizes 24" or greater in length
- Custom Sizes Available





Looking for guidance on specifying the right sidewalk drain solution for your next project? **Talk with one of our experts.**

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