

A photograph of a tree trunk growing through a square metal grate on a paved sidewalk. The grate is made of a dark, possibly copper or bronze, material and features a circular pattern with concentric rings. The sidewalk is composed of large, light-colored rectangular tiles. The tree trunk is dark and textured, and its shadow is cast onto the tiles. The background is a bright, overexposed outdoor area with more trees and a building.

product
guide

 **IRONSMITH**
leadership by design

Integrity, quality, helpfulness and reliability are not just words.

They're our mission.

At **IRONSMITH**, we believe we are all responsible for the environment.

That's why we design our products with future generations and decades of use in mind. We utilize 100% post-consumer recycled metal in our cast products, which also supports projects qualifying for LEED points.

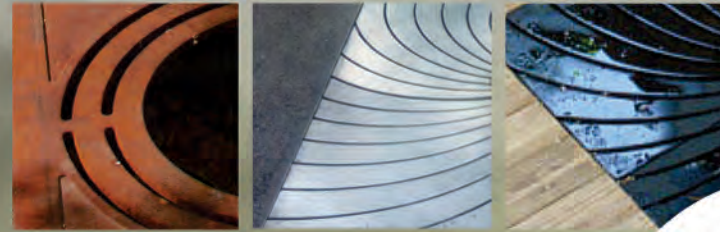
Healthy urban forests are not only keys to our success, but to the success of built environments and the world as a whole. Trees cool us, create micro climates, reduce urban heat island effect, intercept rainfall, increase percolation, and provide life-giving oxygen. Our business is based upon providing solutions that promote healthy trees and effective water control in urban settings.



our website

Whether you are actively involved in planning a project or have barely begun to venture into the early stages of design, our website is a valuable resource. At www.ironsmith.biz you will find comprehensive information about all of our products, in addition to downloadable CAD and PDF files, 3-part specs, installation details and extensive project photo galleries to inspire you.

At www.ironsmith.biz you can get immediate answers to common questions, contact us with uncommon ones, explore useful links, and essentially make incredible progress in planning your project. Our easy to use, intuitive search feature allows you to find the perfect products to meet your project needs in seconds, and the user-friendly navigation enables you to download drawings and specs from the results quickly and easily.



materials



Powder Coated



Aluminum



Bronze



Natural Cast Iron

IRONSMITH has the capability to provide cast and fabricated products in a wide range of materials. We can provide any of our cast products in the following materials, each of which offers a unique set of functional and aesthetic qualities that greatly increase your design options:

- Gray iron
- Ductile iron
- Aluminum
- Copper alloys

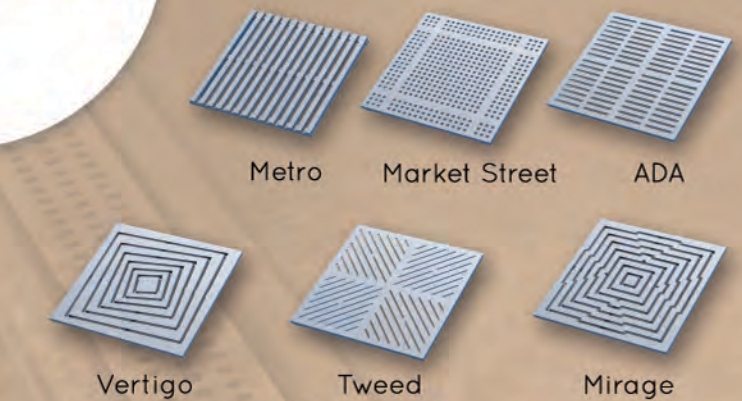
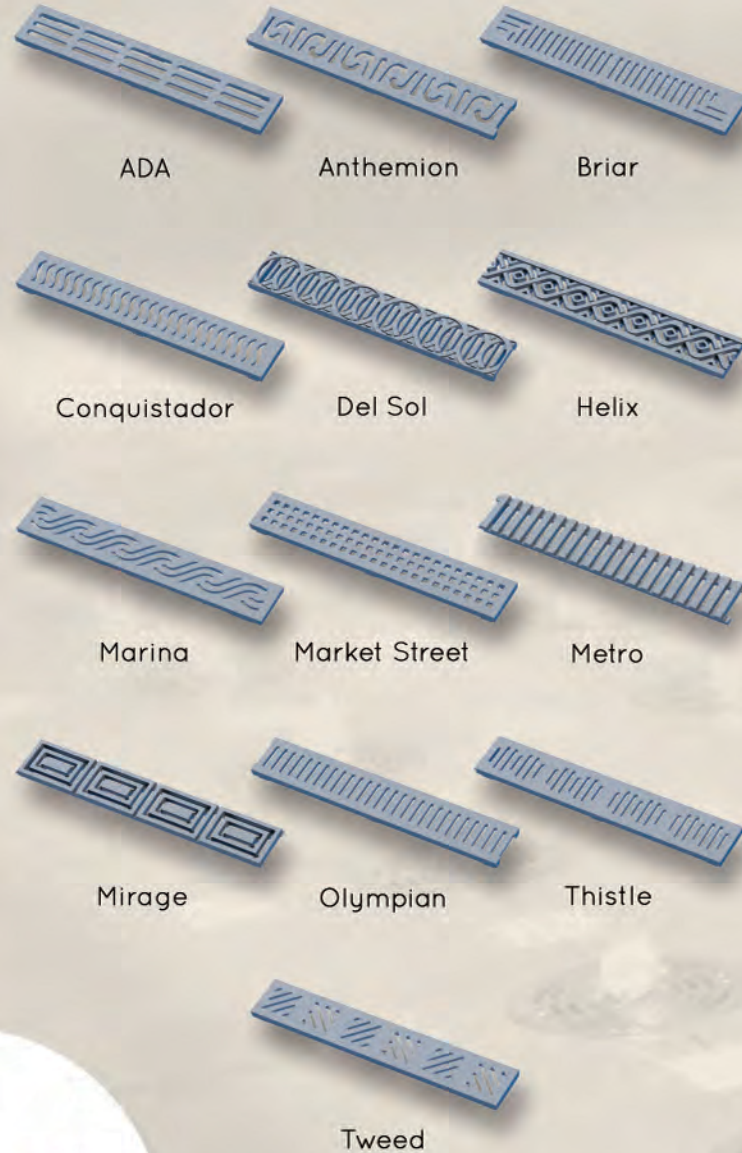
All of these materials offer many decades of reliable function and visual appeal. Each can be provided unfinished to acquire the natural patina of age or we can provide a wide range of finish options to your specifications. Visit our website for details or call us to discuss your specific needs.

IRONSMITH trench grates effectively combine aesthetics with drainage solutions. Available in a wide range of styles, with new ones being added regularly, our trench grates come in standard 4", 6", 8", 10", 12" and 16" widths and 24" lengths.

- We will make any of our styles to fit any other manufacturer's standard preformed trough systems.
- Pedestrian and traffic rated models available
- 90 degree corner castings allow for design continuity at direction changes
- Available in any of our cast materials
- Designed to compliment **IRONSMITH** tree grates

Area Drain Grates are available in several patterns to compliment our tree grates and trench grates in sizes from 8" to 24".

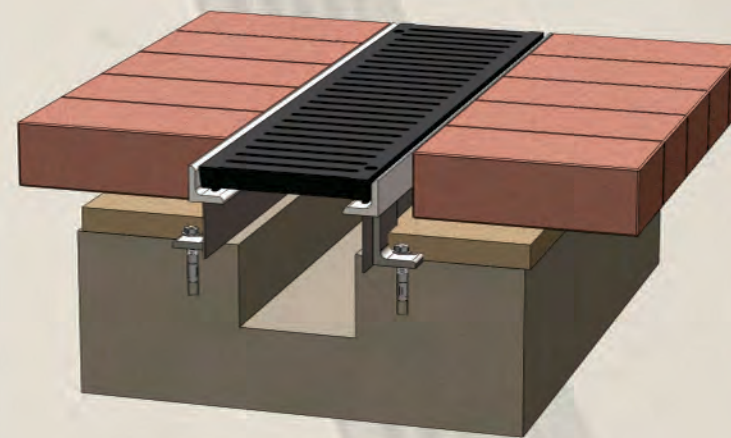
trench grates
drain grates



Del Sol



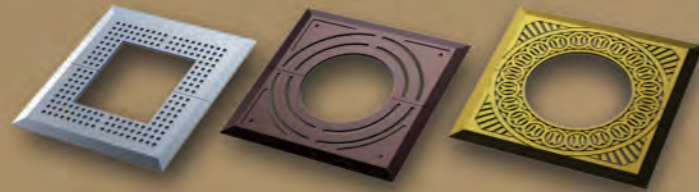
radius
trench grates
trench grate
frames



Straight doesn't always work when it comes to drainage solutions. Over the last two decades, **IRONSMITH** has perfected an easy-to-install, affordable system for making curved trench grates that fit your specific site needs. Our in-house design team works with you to calculate the exact size, radius and arc that will be needed, in the style that best fits your project, and our top quality manufacturing process ensures a perfect result every time.

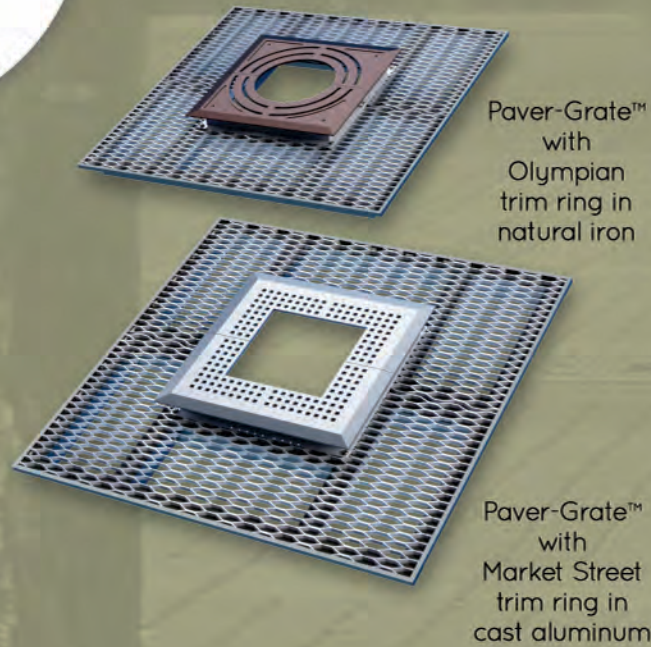
Successful grate installations require a frame system that is both heavy duty and easy to install. **IRONSMITH** offers a wide variety of frame configurations to facilitate grate installation in any hardscape, along with the ability to combine different installation details in one frame. To learn more about the solution that is right for you, please visit us online at www.ironsmith.biz, or give our design team a call.

paver-grate™



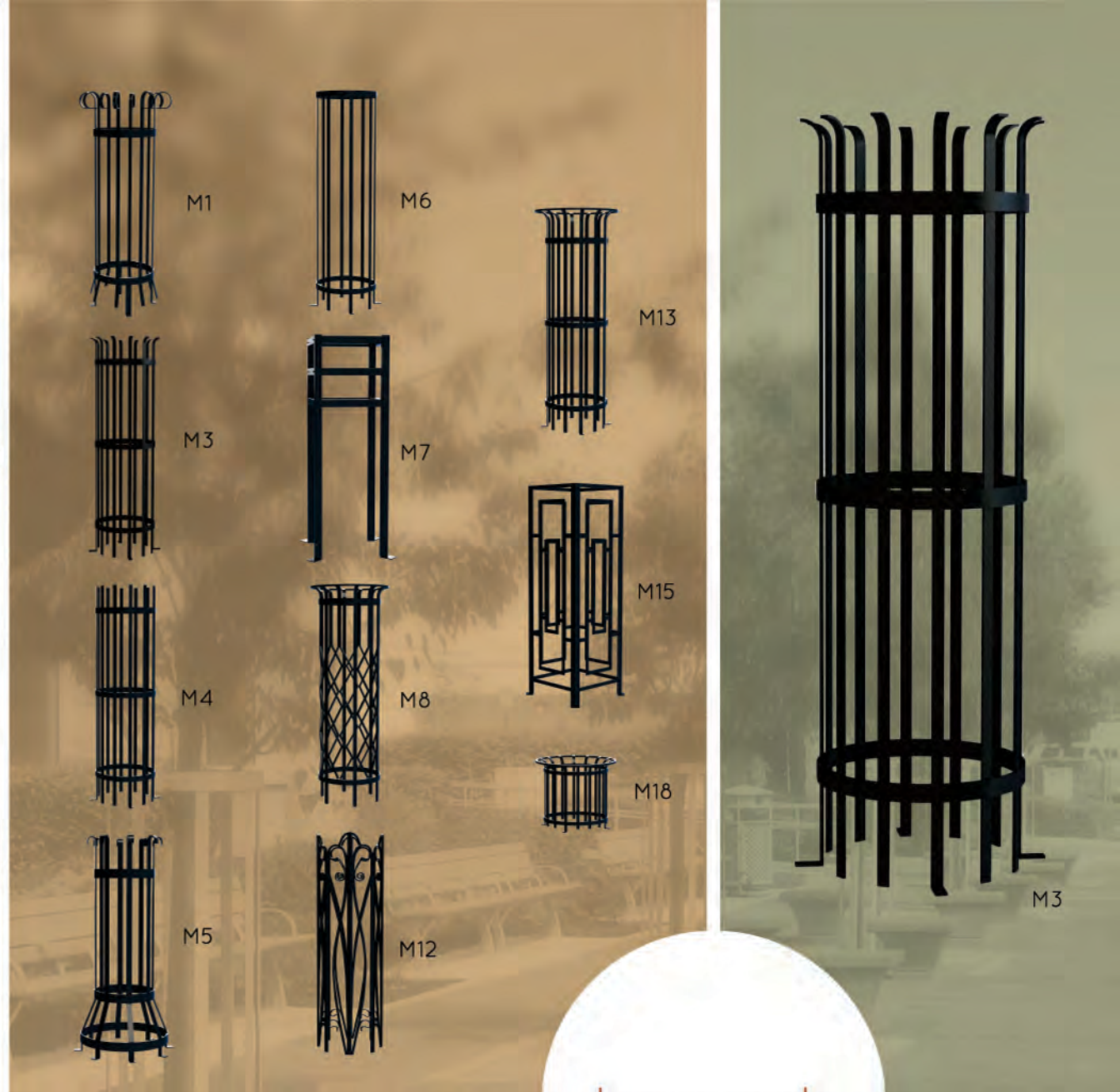
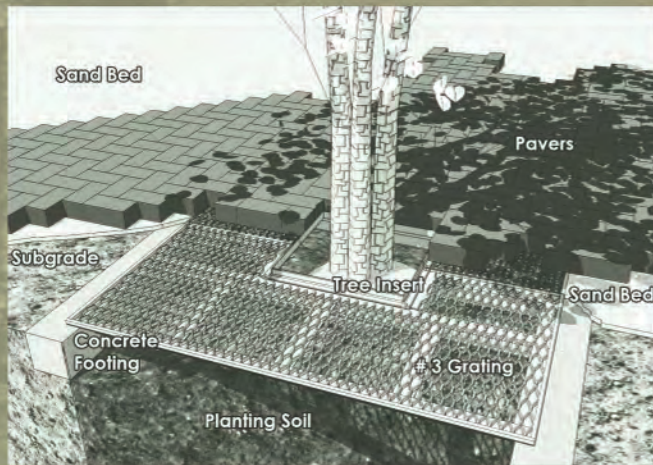
Market Street, Olympian and Del Sol Paver-Grate™ trim rings in cast aluminum, patina cast iron and bronze.

IRONSMITH's patented **Paver-Grate™** suspended paver system lets you design over--instead of around--tree plantings for optimized planting space, tree health and pedestrian comfort. **Paver-Grates™** provide a way to create visually seamless expanses of unit pavers in plazas, malls, and building entries while incorporating trees for shade and scale. **Paver-Grates™** can be specified in standard sizes with or without opening trim rings, or custom made to meet your exact needs. To find out more, visit us at WWW.IRONSMITH.BIZ, or call our design team to discuss your specific project requirements.



Paver-Grate™ with Olympian trim ring in natural iron

Paver-Grate™ with Market Street trim ring in cast aluminum



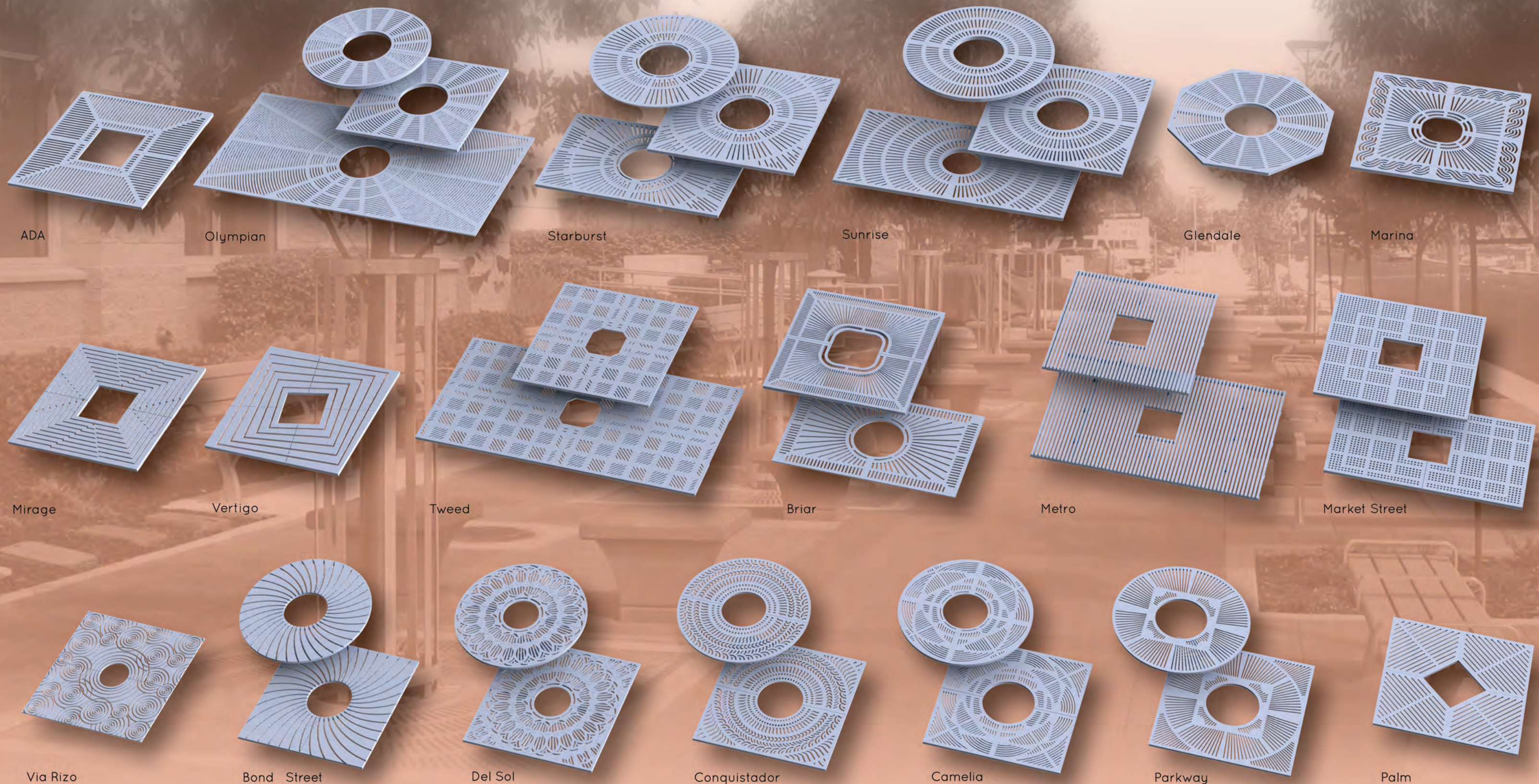
tree guards

IRONSMITH tree guards are crafted from heavy steel to hold up in the most vigorous urban environments. Besides offering protection from bicycles, carriages and car doors, they also add vertical interest to your pedestrian space, enhancing either a contemporary look or a historical period style.

tree grates

Tree grates help trees and humans coexist in public spaces by allowing room for both. Beyond that, however, they can also be a signature design element in any project.

At **IRONSMITH**, tree grates are our prime focus. Three materials, four shapes, 19 designs, 30 sizes and growing, we have the widest selection of pedestrian friendly small opening tree grates in the industry. With sizes from 24" to 120" in traditional and contemporary styles, we have a grate for any project. And if we don't—we'll make it for you. Our "made to order" model allows you to specify the tree opening option, finish, and any small modifications needed in the same time frame as the "standard product" from other manufacturers.



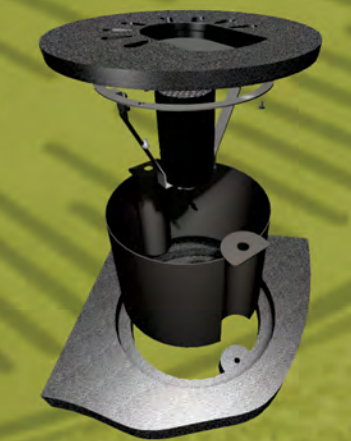
illumination



Market Street tree grate with optional light well

Looking for a way to add an extra touch of dramatic flare to your next project? Ironsmith offers optional light wells and turn-key lighting packages with most of our tree grate designs. Visit us online at www.ironsmith.biz for complete details.

Lighting construction is durable and waterproof, and installation is quick and easy with our turn-key lighting kits, available in all of our standard finishes with a choice of LED or halogen lamps. Visit us online at www.ironsmith.biz for complete details.



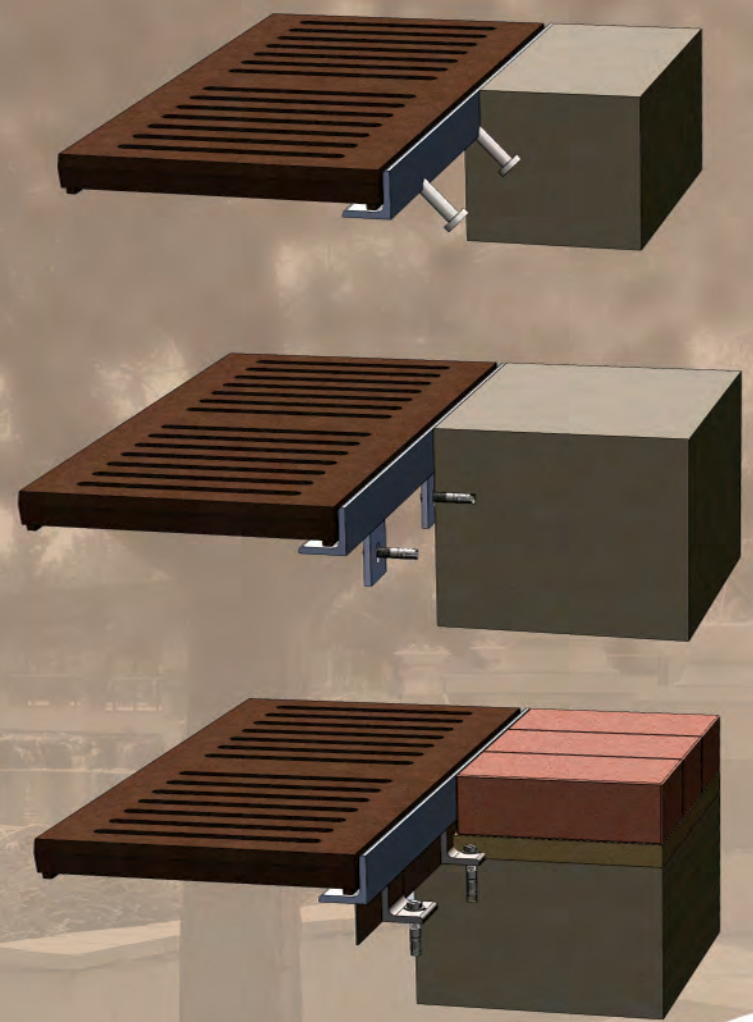
Bollards provide a visual cue to define space in the landscape; they provide a psychological barrier, and when reinforced, a physical barrier as well.

IRONSMITH's cast bollards feature iron or aluminum construction, and most styles are available with removable options. Our pipe-based bollards—Phoenician, Atlantian, and Aegean—come as a complete unit in 4", 6", 8" and 10" diameters, and are also available as cap alone to add to your own new or existing pipe. Visit us at www.ironsmith.biz to see our exclusive pedestrian-friendly removable options.

bollards & caps



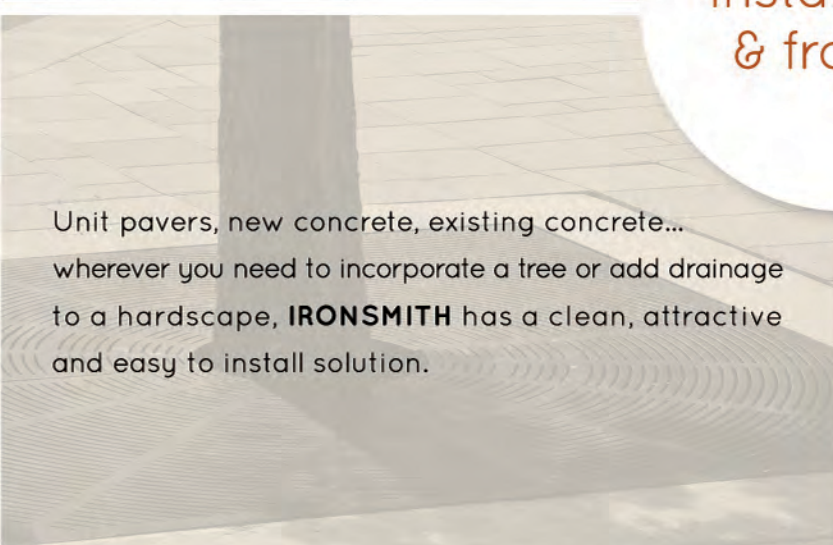
Victorian
 Phoenician
 Cypress
 Atlantian
 Metro
 Lexington
 Harbor
 Salem
 Aegean



Even the best product is only as good as the installation itself. **IRONSMITH** makes grate installation easy and reliable, utilizing frames that are jig welded from heavy steel shapes, ensuring a consistently perfect fit with no on-site assembly required. Frame installation can even be completed before grates reach the job site—with complete confidence of a perfect outcome. We offer installation solutions for any hardscape material and can easily combine multiple installation details on any frame.

Visit our website for a complete list of frame installation details, or call our design department; they will be happy to work out an installation plan specific to your unique needs.

installation & frames



Unit pavers, new concrete, existing concrete... wherever you need to incorporate a tree or add drainage to a hardscape, **IRONSMITH** has a clean, attractive and easy to install solution.

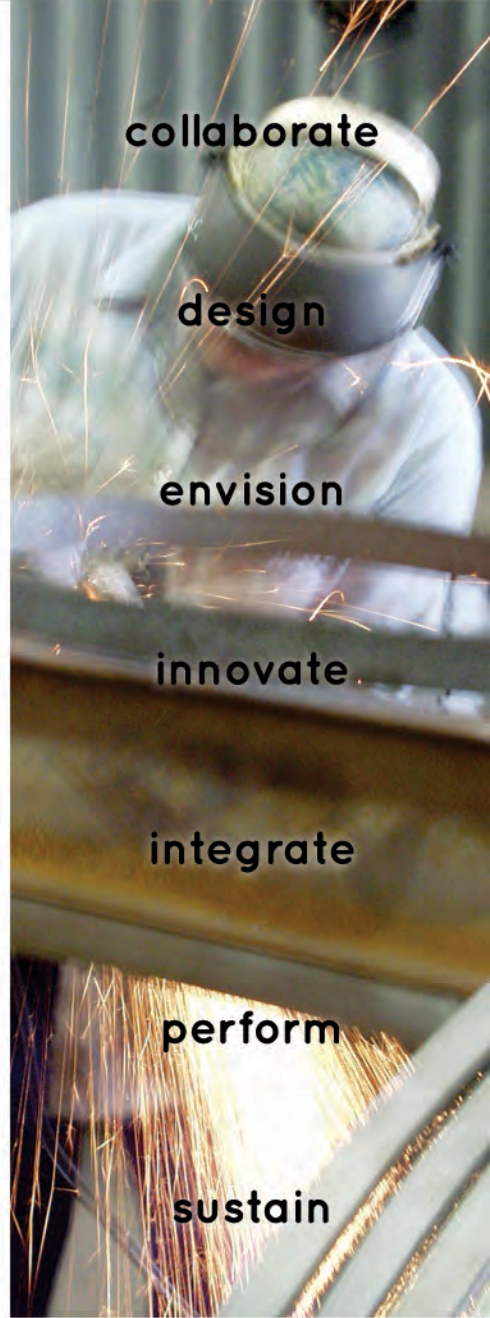
customizing



IRONSMITH's seasoned team of craftsmen is at the ready to work with you on virtually any type of customization imaginable. From specialty embossed castings, to one of a kind finishes or designs, we have what it takes to help make your vision a reality.



At IRONSMITH, *made to order* means just that; **we create what you need...period.** Whether your design calls for a complete new custom product or a slight variation on an existing one, our incredible range of styles, sizes, materials and finishes combine with our customizing capabilities to create endless possibilities.



collaborate

design

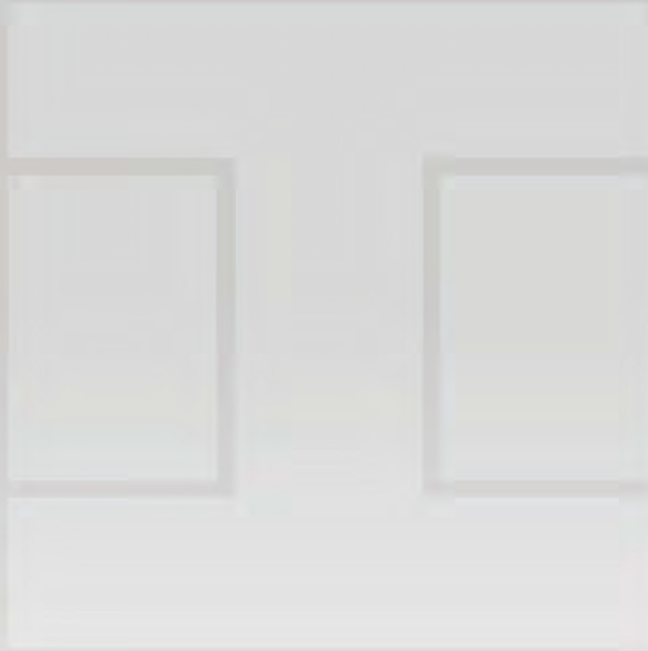
envision

innovate

integrate

perform

sustain



 **IRONSMITH**

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