



ESTB. 1978

WATERWORKS



QUALITY &
ENGINEERING



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W A T E R W O R K S

Waterworks designs with the mind of an engineer and the eye of an artist. From inception to installation, we produce an uncompromising collaboration of absolute function and exquisite form.

All Waterworks products are precisely engineered and expertly manufactured. And, with plumbing a core business, we are particularly focused on the technical excellence, consistency, accuracy and practicality of every component and assembly we make.

For over 30 years, Waterworks has demonstrated that quality behind the wall is as important as beauty on the surface. We trust that this book, dedicated to our fittings expertise, illustrates our commitment to providing the highest standards for all who work and live with our products.

ENGINEERED TO THE EXTREME

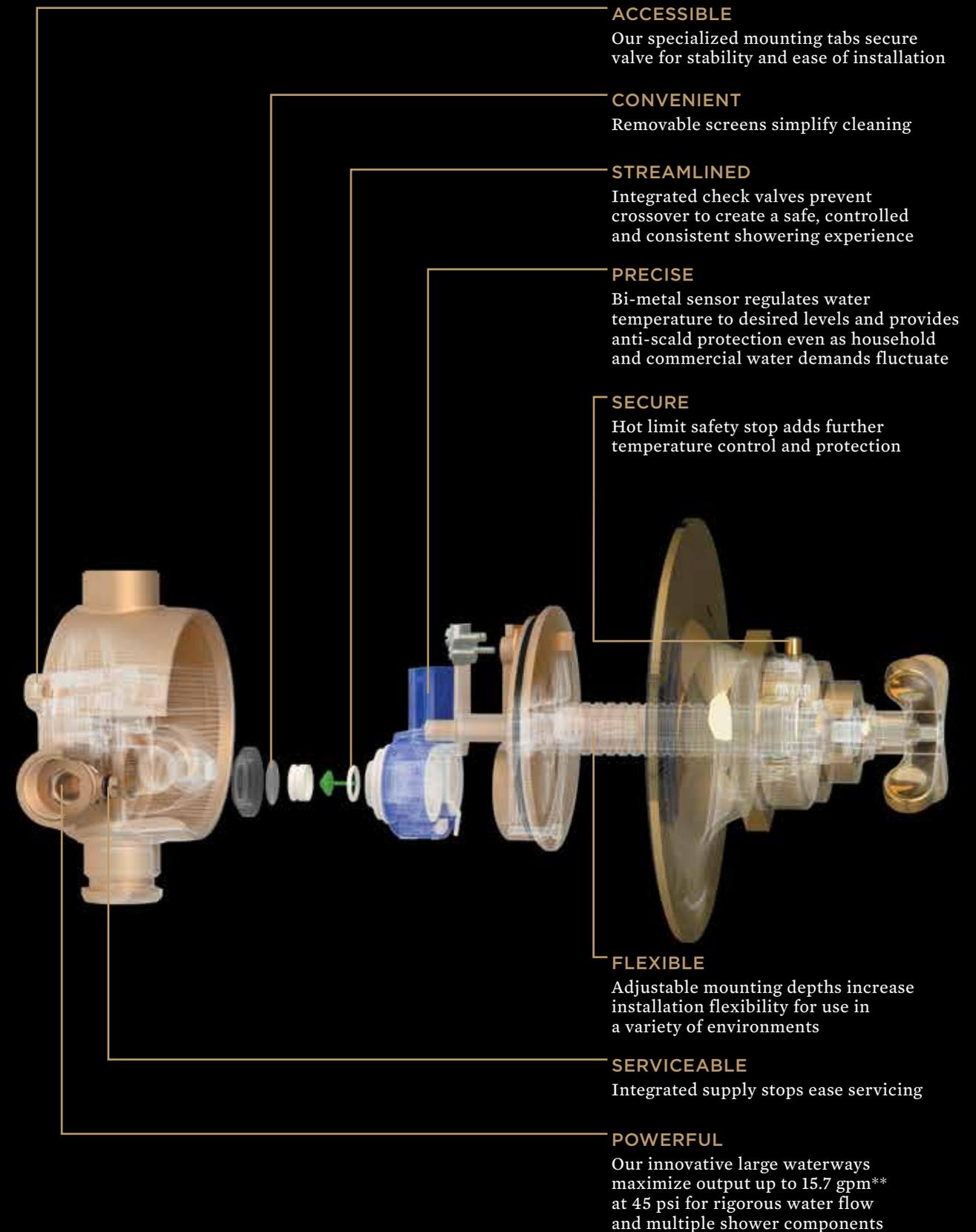
Waterworks engineers guide every product through a multi-stage process that begins with a hand-drawn sketch and moves through 3-D computer modeling, prototypes and tooling until we achieve a state-of-the-art finished product.

This focus on invention and advanced engineering creates products that deliver more than may ever be needed—the ability to withstand 500 psi* or last beyond 500,000 uses—but that we deem necessary.

- Performance-driven functionality
- Consistent and reliable quality
- Proprietary and award-winning designs
- Utility and design patents
- Installation flexibility and adaptability
- Lasting satisfaction

* PSI = pound-force per square inch of water pressure ** GPM = gallons per minute

INNOVATION AT WORK: Our proprietary design improves installation, security, service, and maximizes water flow. The Universal $\frac{3}{4}$ " Thermostatic Shower Valve





THE ART OF AUTHENTICITY

Waterworks products are designed to stand the tests of time. We combine the latest technology with the world's most time-honored manufacturing techniques and authentic raw materials to produce lasting reliability and beauty.

Our factories are characterized by their:

- Shared commitment to outstanding quality, detail and durability
- Skilled artisans and technicians with years of training and decades of experience
- Long, rich histories spanning up to 100 years in business
- Best-in-class processes from automated casting and forging machines to precise robotic machining with tolerances of $\pm .05\text{mm}$ and meticulous electroplating finishing technology
- Quality materials including 0.25% low-lead brass, ceramic, 18-8 grade stainless steel and premium finish options such as gold, silver and carbon
- Compliance with the strictest quality standards and recognized certifications including ISO 9001

IN THE DETAILS: It is the merging of modern technology and old-world craftsmanship that distinguishes the look, feel and function of everything we do.

TESTING: THE MEASURE OF QUALITY

At our factories, through third-party agencies and in our own quality control labs, we test components and products over and over prior to shipping to our clients.

A single part can go through dozens of inspection points during manufacturing, assembly and pre-shipment reviews. From repetitive leak testing and robust plating controls to the innovative and protective packaging of our assemblies, Waterworks takes every measure possible to guarantee the highest levels of quality.

PUT TO THE TEST: The R.W. Atlas Kitchen Mixer



1. Raw brass is verified daily for composition

2. Manual and dimensional inspections are made after machining, casting or bending operations

3. Spouts are 100% verified through a preliminary leak test

4. After plating finish, a secondary detailed visual inspection is conducted

5. Plating finish is tested for corrosion, adhesion and thickness

6. Finishing materials and chemicals are verified for composition

7. Parts are assembled and verified with a final leak test

8. Product is individually inspected and audited by quality inspectors



THE SEALS OF APPROVAL

As a leader, Waterworks invests extensively in auditing our factories and products to ensure they meet or surpass industry standards. This means that all materials brought into our factories have certificates authenticating their composition, every component is inspected and the entire production process is evaluated by independent certification and testing laboratories.

TO CODE: Our products are approved for a variety of voluntary and mandatory compliance standards and certifications including



ADA

Americans with Disabilities Act specifies how products and living spaces are made accessible to and usable by persons with physical disabilities



ASME

American Society of Mechanical Engineers ensures safety and performance standards



CSA

Canadian Standards Association ensures compliance with product quality standards for Canada



CUL

Underwriters Laboratories establishes health effect and performance standards



CUPC

US and Canadian Uniform Plumbing Code for sanitary and safe plumbing systems



IAPMO

International Association of Plumbing and Mechanical Officials covers product testing and certification



IP

European Ingress Protection Rating certifies protection against particles, human contact or water by mechanical casings and electrical enclosures (pending)



IPC

International Plumbing Code signifies safe and sanitary plumbing systems



NSF 61G

National Sanitation Foundation for clean and safe drinking water including low-lead standards of at least 0.25%



WATERSENSE

Creates product specifications for low-flow requirements



WRAS

Water Regulations Advisory Scheme demonstrates the compliance with water regulations standards in the United Kingdom (pending)

A POSITIVE IMPACT

Disposable is not in our vocabulary. We champion sustainable practices with our commitment to creating extraordinarily durable products—made from genuine materials—that will be enjoyed from one generation to the next.

Our factories employ numerous environmental controls such as: building energy-efficient facilities, manufacturing with solar power, repurposing metal and eliminating industrial waste. We further support sustainability by producing and using various packaging materials that incorporate post-consumer recycled paper.

THE GREEN STANDARD: Examples of our factories' sustainability practices include

Solar-powered manufacturing

Full and clean recycling of brass

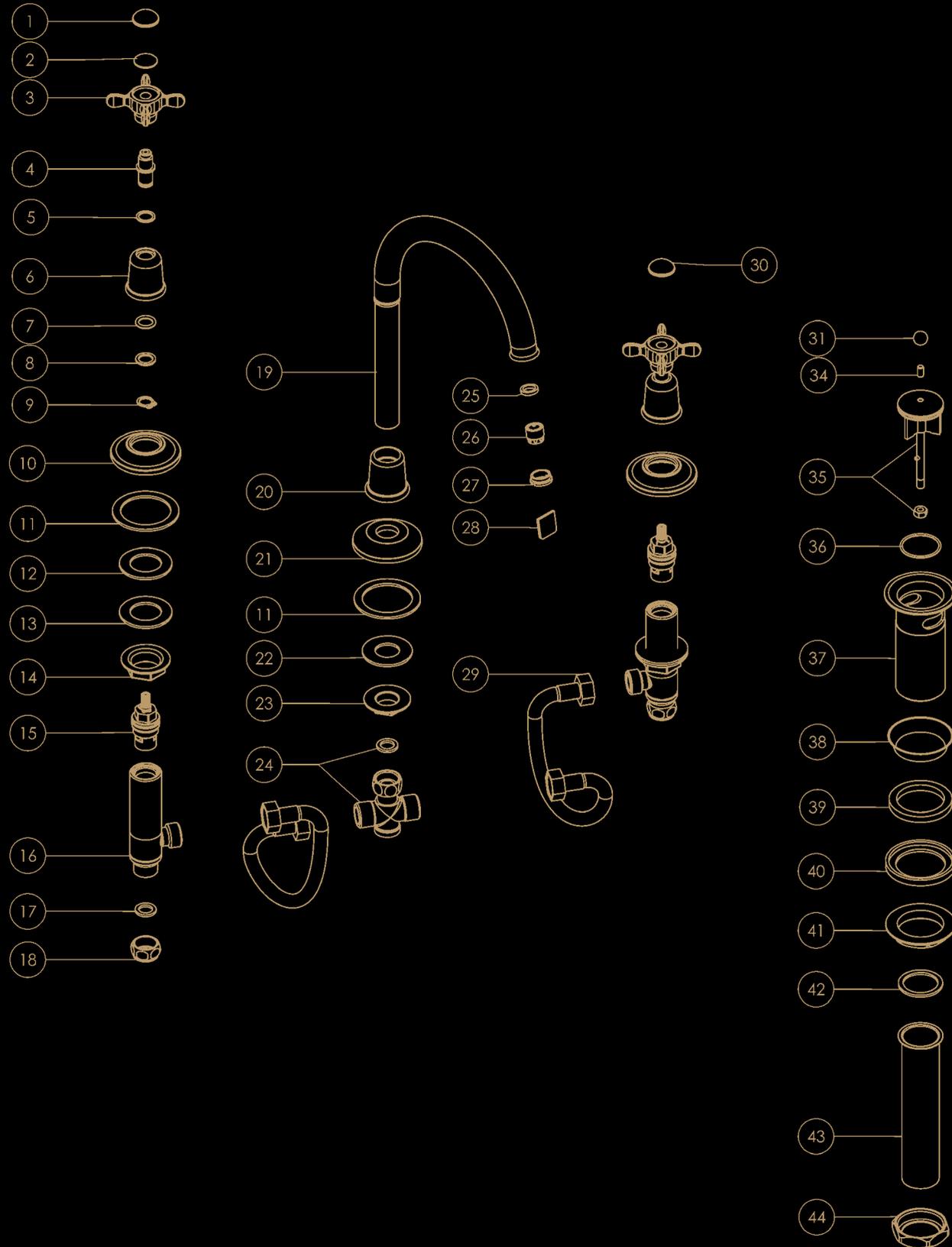
Finishing procedures that reduce water consumption by 80% and produce zero waste water

Innovative facilities lighting that cuts consumption by 50%

Energy-efficient buildings that meet European Thermal Regulation standards

Industrial waste reduction methods

NOT A DROP WASTED: Brass excess is melted and recycled through a controlled process to maintain purity and correct composition.



THE POWER OF PRACTICAL

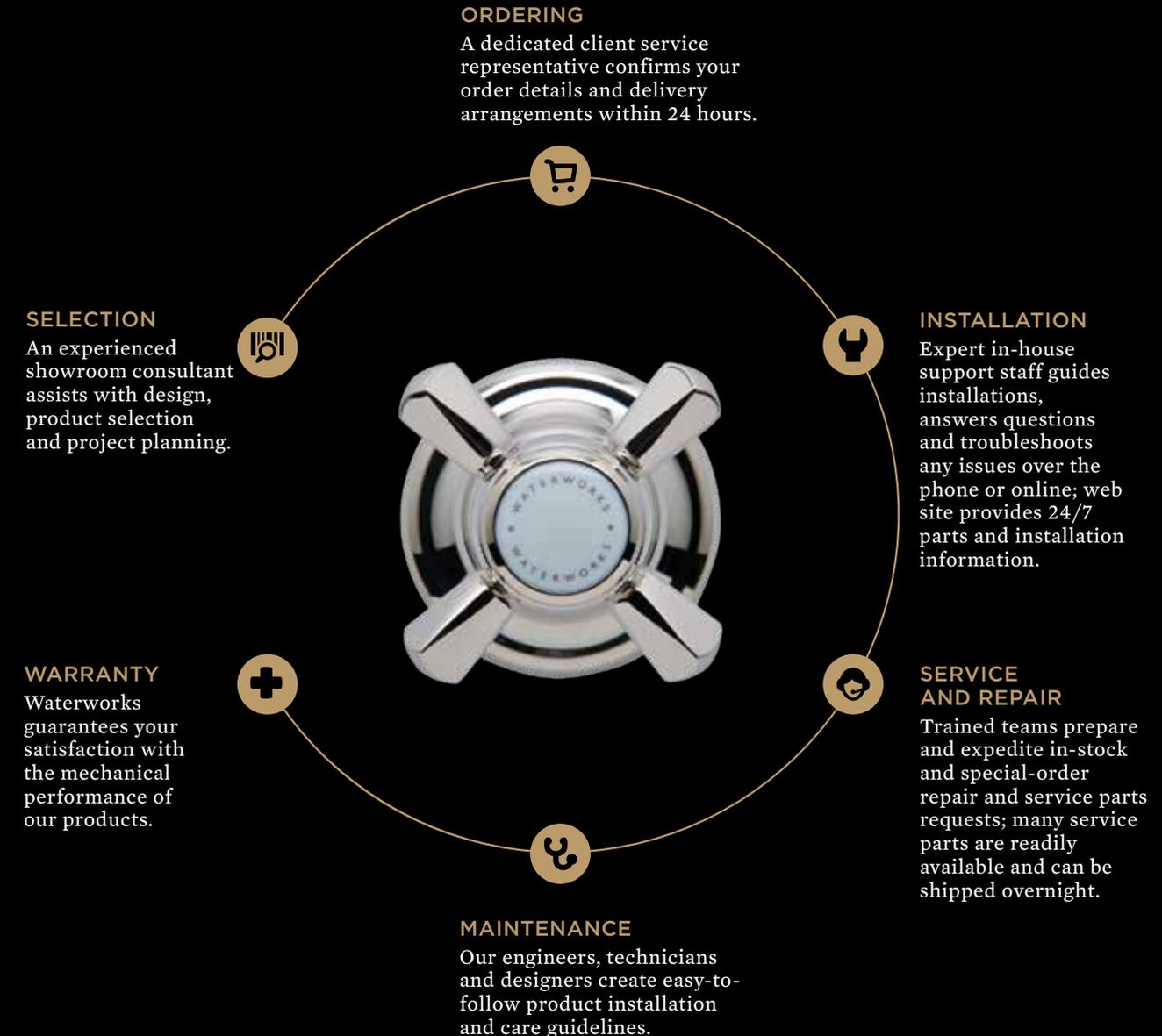
Our comprehensive support materials provide professional designers and contractors with the precise tools they need to specify, install and service our products. Each well-illustrated and easy-to-follow document is produced for clarity and accuracy by our engineers, technicians, quality assurance and service teams. In addition to being shipped with our products, these support materials are conveniently available at waterworks.com.

- Installation Guidelines
- Specification Sheets
- Service Parts Manuals
- Care & Cleaning Documents
- QR Codes for quick digital access
- Waterworks Warranty

AT YOUR SERVICE

Everything Waterworks does—from designing proprietary products to writing detailed installation guidelines—is focused on creating an outstanding experience for all of our clients. The fact is that many of our engineers, technicians and associates began their careers in the plumbing field. So, whether working with a contractor, installer, designer or homeowner, we tap into decades of practical experience and expertise to provide the most informed and professional service possible. This is our commitment to you from the moment a project begins to years after the installation is complete.

START TO FINISH: Waterworks provides knowledgeable, personalized and responsive support. The Astoria Cross Handle



CONTACT

For further information,
please contact a Waterworks
Sales Consultant at a nearby
location or call us at
800.899.6757

For a Waterworks sales
consultant outside of our
markets, international
inquiries, or direct sales
please call our catalog team
at **800.899.6757** or our UK
showroom at
+44 (0)207.384.4000

For an online catalog
please go to waterworks.com

SHOWROOMS

ATLANTA
1 West Paces Ferry Rd
Atlanta, GA 30305
P 404.266.1080 F 404.266.9055

BOSTON
One Design Center Place, Suite 147
Boston, MA 02210
P 617.951.2496 F 617.951.2498

CHICAGO
222 Merchandise Mart Plaza, Suite 136
Chicago, IL 60654
P 312.527.4668 F 312.527.1490

DALLAS
1525 Hi Line Drive, Suite A
Dallas, TX 75207
P 214.749.0465 F 214.749.0481

DENVER
601 S. Broadway, Suite X
Denver, CO 80209
P 303.282.6800 F 303.282.4311

GEORGETOWN
3314 M Street NW
Washington, DC 20007
P 202.333.7180 F 202.333.7207

GREENWICH
23 West Putnam Avenue
Greenwich, CT 06830
P 203.869.7766 F 203.869.7629

LONDON
579-581 King's Road
London, England
SW6 2EH
P +44 (0)207.384.4000

LOS ANGELES
8431 Melrose Place
Los Angeles, CA 90069
P 310.289.5211 F 310.289.1028

MIAMI
167 NE 39th Street
Miami, FL 33137
P 305.573.7593 F 305.573.7460

NYC 58TH STREET
215 East 58th Street
New York, NY 10022
P 212.371.9266 F 212.371.9263

NYC FLATIRON
7 East 20th Street
New York, NY 10003
P 212.254.6025 F 212.254.6069

NYC KITCHEN
979 3rd Avenue, Suite 134
(Entrance on 59th Street)
New York, NY 10022
P 212.371.9266 F 212.371.9263

SAN FRANCISCO
235 Kansas Street
San Francisco, CA 94103
P 415.431.7160 F 415.431.7387

SCOTTSDALE
4234 N. Craftsman Court, Suite 2
Scottsdale, AZ 85251
P 480.946.2550 F 480.946.2584

BOUTIQUE PARTNERS

BIRMINGHAM, AL
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COMMERCIAL & HOSPITALITY

For commercial interests please contact:
Commercial and Hospitality
60 Backus Avenue
Danbury, CT 06810
P 203.546.6196 F 203.546.6001
waterworks.com/commercial

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