



HIGH-END PERFORMANCE

BAKED RIGHT IN

Introducing

OVENZZ™ BRICK OVEN SOLUTIONS

by HarbisonWalker International™



REFRACTORIES.
THE FIRST
INGREDIENTS
IN BRICK OVEN
BAKING.



Somewhere at the end of each new brick oven is an intensely passionate chef or cook who labors over every ingredient. These artisans never compromise when it comes to their food's appearance, texture, and flavor. There's only one oven they want to stand behind: one that performs to the highest degree.

HarbisonWalker International's OVENZZ™ refractory solutions are a leading choice for commercial and residential oven suppliers, designers, and builders because our products deliver exceptional durability and cooking performance.

When you have an even and thermal-efficient heating environment, foods cook better and taste better.

CALL 800-887-5555 >

BORN TO TAKE THE HEAT

We're the thought leaders, the researchers, and the innovators. We're the products that stand the test of time and set the gold standard. We're the ideas that will change tomorrow.

For more than 150 years, HarbisonWalker International has served virtually every industry that needs high-heat refractory products to do its job. Today, years of knowledge, innovation, and technology are working their magic in the world of brick and pizza ovens.

OVENZZ™ — A 360° HEATING SOLUTION FOR THE MOST WELL-ROUNDED OVEN DESIGNS

Maybe your oven design is simple. Maybe it's elaborate. Either way, we answer the call with OVENZZ™, a new line of refractory products.

OVENZZ™ is one of the few product solutions to offer 360° interior coverage across floors, walls, and ceilings. Our full interior refractory applications improve thermal efficiency while the oven is in use. Plus our refractory solutions minimize heat loss — even with the constant opening and closing of oven doors.

Looking to maximize your pizza oven's design? Our OVENZZ™ products will meet your specifications and improve your oven's performance.

OVEN DESIGNS MAY VARY BUT FOOD SAFETY IS NON-NEGOTIABLE

While oven designs may vary, food safety is non-negotiable. At HarbisonWalker International, food safety comes before all else. Our OVENZZ™ products have been certified by NSF International. And all OVENZZ™ products meet American National Standard/NSF International Standard 51 for use as a food equipment material and are approved for contact with food.

And of course we always have our eye on kitchen safety. Our ceramic fiber blankets and bulk fiber products help keep oven exteriors cool and improve baking environment safety.



All OVENZZ™ products have been certified as NSF/ANSI Standard 51 for use as food equipment materials and are suitable for food contact applications.



A HIGHER DEGREE OF SERVICE—HOW COOL IS THAT?

At HarbisonWalker International, we live the business of heat containment every day. For over a century, our expertise and innovations have saved time and money for companies from virtually every industry under the sun.

Here's what we deliver to the food industry:

- Strong thermal efficiency and performance-saving heating costs over the life of the oven
- Even heat distribution that improves baking performance
- Fast oven heat-up
- Fast cooking times
- Food contact safe as certified by NSF International

Our products stand up to the heat, and so do our people. We're intensely driven to respond. We're beyond reliable. And we're here 24 / 7 / 365 to get you exactly what you need. We have lightning-fast delivery thanks to our vast number of North American global sourcing centers — most with same-day or next-day delivery. Visit our website for the global sourcing center nearest you at [ovenzzrefractory.com](https://www.ovenzzrefractory.com).

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GET YOUR BAKE ON WITH OVENZZ™

OVENZZ™ BRICK are available in various shapes and sizes

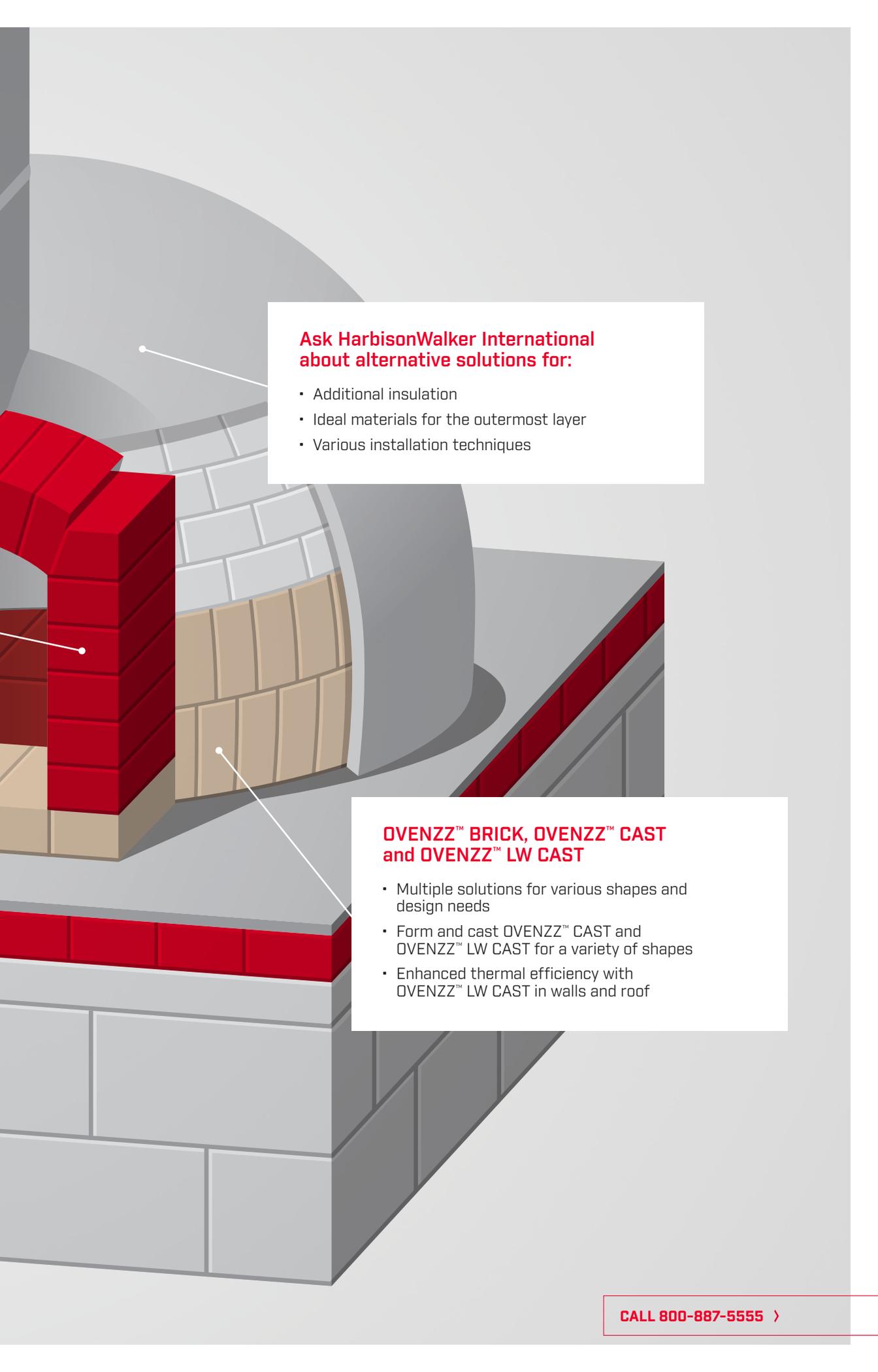
- Ideal for construction of a variety of designs

OVENZZ™ MORTAR

- For thinly troweled joints between OVENZZ Bricks
- Fills cracks and seats additional shapes

OVENZZ™ BRICK and OVENZZ™ CAST

- NSF Standard 51 certified – safe for use in food contact areas
- Durable solution for the cooking surface
- Diverse shape, size and thickness capabilities



**Ask HarbisonWalker International
about alternative solutions for:**

- Additional insulation
- Ideal materials for the outermost layer
- Various installation techniques

**OVENZZ™ BRICK, OVENZZ™ CAST
and OVENZZ™ LW CAST**

- Multiple solutions for various shapes and design needs
- Form and cast OVENZZ™ CAST and OVENZZ™ LW CAST for a variety of shapes
- Enhanced thermal efficiency with OVENZZ™ LW CAST in walls and roof

PIZZA? BREAD? PANINI? WHATEVER YOU BAKE, OVENZZ™ PRODUCTS WILL WORK FOR YOU

We provide solutions for all kinds of brick ovens and cooking applications. Our refractory firebricks, and high-temperature cements and mortar have a fireclay base to assure exceptional high heat capacity. And because our brick requires no priming, there's no need for the hearth or deck to be fired before you start baking.

From small stoves to large commercial pizza ovens, we have just the right products to help ensure safety, and cooking efficiency.

Our NSF-certified food contact products include:

- **OVENZZ™ BRICK** — ASTM C27 super-duty firebrick, available in numerous shapes and sizes. This product is high fired and requires no priming.
- **OVENZZ™ LW CAST** — lightweight, insulating castable refractory with extraordinary strength and excellent insulating properties. Suitable for casting shapes, pouring in place, and filling large cracks and holes. OVENZZ™ LW CAST provides a more thermal-efficient solution than dense products. It's made with GREENLITE® aggregate, a higher-strength insulating product.
- **OVENZZ™ CAST** — fireclay-based, cement-bonded, dense castable refractory. Suitable for casting shapes, pouring in place, and filling large cracks and holes.
- **OVENZZ™ MORTAR** — high-alumina, air-setting refractory mortar that is ideal for troweling.

Products that are at home outside the oven:

- Our INSWOOL® product line includes ceramic fiber blankets, textiles, and bulk fibers, plus insulation board and paper options.
- Our MORTAR MIX 413® is a cement-bonded mortar that, once set, will retain its integrity if exposed to water and outside elements.



SAFE, SOUND, AND TECHNICALLY SUPERIOR

Typical Physical Properties

OVENZZ™
CAST

OVENZZ™
LW CAST

OVENZZ™
BRICK

OVENZZ™
MORTAR

Maximum Service Temperature, °F [°C]

OVENZZ™ CAST	OVENZZ™ LW CAST	OVENZZ™ BRICK	OVENZZ™ MORTAR
2550 (1400)	2500 (1370)	2500 (1370)	3000 (1650)

Bulk Density, lb/ft³ [g/cm³]

Temperature	OVENZZ™ CAST	OVENZZ™ LW CAST	OVENZZ™ BRICK	OVENZZ™ MORTAR
After 220°F [105°C]	127 (2.04)	80 (1.28)	142 (2.27)	
After 1500°F [815°C]	122 (1.96)	73 (1.17)		

Cold Crushing Strength, lb/in² [MPa]

Temperature	OVENZZ™ CAST	OVENZZ™ LW CAST	OVENZZ™ BRICK	OVENZZ™ MORTAR
After 220°F [105°C]	4150 (28.5)	2300 (15.8)	5000 (34.5)	
After 1000°F [540°C]	2650 (18.4)	3000 (20.7)		

Alumina/Silica Content [Approximate], % [Calcined Basis]

Component	OVENZZ™ CAST	OVENZZ™ LW CAST	OVENZZ™ BRICK	OVENZZ™ MORTAR
Alumina [Al ₂ O ₃]	44.9	44.6	43.0	34.6
Silica [SiO ₂]	42.6	39.3	52.0	59.6

The data given above are based on averages of test results on samples selected from routine plant production by standard ASTM procedures where applicable. Variation from the above data may occur in individual test. These results cannot be taken as minima or maxima for specification purposes. All statements, information, and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements or suggestions concerning possible use of our products are made without representation or warranty that any such product is fit for such use or that such use is free of patent infringement of a third party. The suggested use assumes that all safety measures are taken by the user.

HWI is not an oven product designer or assembler. HWI has no involvement in, and makes no warranties or representations about, the proper design or assembly of any finished products in which this component part shall be used. To the extent this component product is used in the assembly of an oven for food applications, the design of your oven may involve dangers associated with open flames and burning embers. You should consult with the designer and/or assembler of your oven for further information relating to its design or assembly and any risks that may arise as a result of the particular design or construction of your oven.

Only components specifically rated and approved for use with food applications should be used in the assembly of food contact and food chamber sections of your oven.

Do not use oven if bricks or mortar are cracked, chipped, or broken. If bricks or mortar are cracked, chipped, or broken, immediately stop using your oven and contact a qualified contractor to perform repairs. Only components specifically rated and approved for use with food applications should be used in the repair of food contact and food chamber areas of your oven.

Do not cut bricks. In the event that cutting of a brick is necessary, a qualified contractor should be consulted.

Children should not use oven.

CAUTION: The design of your oven may involve dangers associated with open flames and burning embers. Exercise caution around open flames. Do not leave oven unattended while in use. Oven should be fully extinguished when use is completed. Consult with the assembler and/or designer of your oven to ensure that proper ventilation has been provided.



PUT OUR INTENSITY TO WORK FOR YOU – AND YOUR OVEN

Every day our people and products stand up to the challenges of every job. As a local US supplier, we'll save you time and money. And our experience in heat containment makes us the safest, most reliable choice for your investment.

We are your one-stop shop for refractory solutions. And we can take your inventory or new build to the next level with OVENZZ™. To learn more, talk with a HarbisonWalker International representative at **800-887-5555**. Or find the global sourcing center nearest you at **ovenzzrefractory.com**.

FIND A GLOBAL SOURCING CENTER NEAR YOU

ALBERTA

Edmonton, AB

Cityview Business Park
6350 Roper Road Bldg #2
Edmonton, AB T6B 3P9
P: 780-485-2908

ALABAMA

Birmingham, AL

1201 Brock Industrial Drive
Birmingham, AL 35208
P: 205-788-1685

CALIFORNIA

Richmond, CA

3451 Collins Avenue
Richmond, CA 94806
P: 510-236-7415

Santa Fe Springs, CA

11042 Forest Place
Santa Fe Springs, CA 90670
P: 562-942-2151

CONNECTICUT

West Haven, CT

163 Boston Post Road
West Haven, CT 6516
P: 203-934-7960

FLORIDA

Lakeland, FL

3225 Reynolds Road
Lakeland, FL 33803
P: 863-669-1040

GEORGIA

Doraville, GA

300 Piedmont Court
Suite 300F
Doraville, GA 30340
P: 770-448-6266

ILLINOIS

Calumet City, IL

1400 Huntington Drive
Calumet City, IL 60409
P: 708-474-5350

Rock Island, IL GSC

2832 5th Street
Rock Island, IL 61201
P: 309-283-0133

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6585 Jonas Place
Berkeley, MO 63134
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Charlotte, NC 28216
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