CBP Engineering Corp.

Beautiful All
Natural Flooring
and Wall Tile

Decorative Cast Basalt Tiles

From the Earth





..... to your next masterpiece

CAST BASALT

Basalt is a neovolcanic eruptive rock which melts at approximately $2250^{\circ}F$, and can be cast in a similar way to cast iron.

Basalt rock, with special chemical and mineralogical structure, is melted in a furnace similar to an open hearth furnace. The molten magma flows through a homogenizing drum and is cast by means of casting ladles - like cast iron - into chill molds (static cast). After a carefully controlled annealing process the resultant cast material, "Cast Basalt" retains the rocks typical qualities color and weight but it has a unique addition of a intricate cooling pattern visible in the tile.

The greatest advantage of Cast Basalt tile is its extraordinary abrasion resistance which in many cases surpasses that of ordinary floor tile. Moreover, basalt tile has nearly unlimited durability and is resistant to all liquid spills of every concentration. Basalt tile is F.D.A. approved for use in the food industry.



A Natural Basalt Formation in The Czech Republic



Raw Basalt Rock



Columnar Basalt in a Quarry

Mineral Composition
Pyroxene, Magnetite, Olivine, Glass

Chemical Composition (Typical)

•	Silica S1O2	45% approx.
•	Alumina AL2O3	12% approx.
•	Calcium Oxide CaO	11% approx.
•	Magnesium Oxide MgO	10% approx.
•	Iron Oxide FeO3	13% approx.
•	Sodium Oxide Na2 O	3% approx.
•	Titanium Oxide TO	3% approx.
•	Potassium Oxide K2 O2	1.5% approx.
•	Phosphorus P2 O	1.5% approx.
•	Manganese Oxide MnO5.	5% approx.

Elemental Qualities of Cast Basalt

•	Specific Gravity	2.90 - 3.0 g/cm3
•	Compressive Strength	approx. 450 MPa -min
•	Bending Strength	approx. 40 MPa -min
•	Tensile Strength	approx. 10 MPa -min
•	Thermal Conductivity	.7 K-Cal/m2/hg °C (1.7w/m-1K-1)
•	Specific Heat	0.2 BTU/lb.°C
•	Thermal Expansion	20-100° C (77 x 10 -7) deg -1- 20-40

0.2 D10/lib. 20-1100° C (77 x 10 -7) deg -1- 20-400° C (86 x 10 -7) deg -1 3-3.5cm3/50 cm2 - Din 52 108

Abrasion Resistance

Hardness 8.5 mohs scale

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Plain Tile Available Sizes:

8" x 8" x 7/8" 8" x 4" x 7/8" 10" x 10" x 7/8" 10" x 5" x 7/8"



Hex Tile Available Sizes:

8" (inner circle) x 1 1/8"

Also half size



Florentina Tile Available Sizes:

9 3/4" x 6 3/4" x 1"



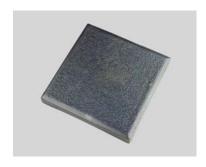
Charlotta Tile Available Sizes:

10" Round x 1"

Sizes are approximate

Nika Anti-Slip Tile Available Sizes:

8" x 8" x 1" 10" x 10" x 1"



Kostka Paver Tile Available Sizes:

6" x 6" x 1 1/2"



Corner Tile:

Available Sizes:
Height/Width/Thick/Long
8" x 2 1/4" x 7/8" x 8" - Flat top
8" x 2 1/4" x 7/8" x 10" - Flat top
8" x 2 1/4" x 7/8" x 10" - Beveled
8" x 2 1/4" x 1 1/4" x 10" - Beveled
3 1/2" x 5" x 7/8" x 10" - Beveled
5" x 2 1/4" x 1 1/4" x 10" - Beveled
4" x 2 1/4" x 7/8" x 8" - Beveled



Jitka Anti-Slip Tile Available Sizes:

8" x 8" x 1 1/8"



Sizes are approximate

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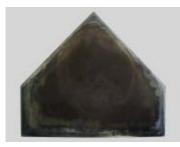
Thales Alpha Tile Available Sizes:

Clockwise from top: 4" x 10" x 8" x 8"



Thales Beta Tile Available Sizes:

Clockwise from top: 8" x 8" x 3" x 8" x 3"



Thales Delta Tile Available Sizes:

Clockwise from top: 8' x 4" x 11" x 4" x 8"



Thales Gamma Tile Available Sizes:

9" x 10" x 10" x 8"

Sizes are approximate

Thales Omega Tile Available Sizes:

Clockwise from top: 3" x 3" x 5" x 5" x 6" x 6"



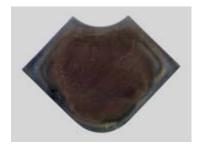
Thales Knossos Tile Available Sizes:

10" x 10" x 1 1/8"



Mava 1 Tile Available Sizes:

8" x 8" (outer) x 7/8"



Mava 2 Tile Available Sizes:

8" x 8" (outer) x 7/8"



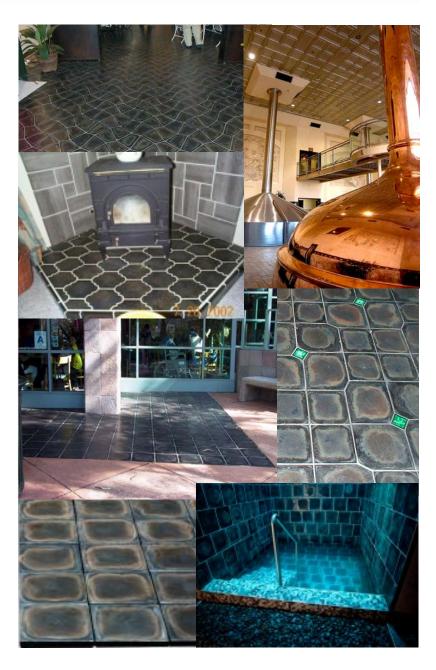
Sizes are approximate

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Various Project References

Cast Basalt Tile is a naturally beautiful and versatile option. There are many applications for our specialty basalt tile products such as interior flooring, exterior decorative flooring and wall tile. The architectural beauty of cast basalt tiles are unsurpassed by any other tile. The earthen appearance of the natural molten lava is simply breathtaking.





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To Order Call: 1-800-468-1180



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