

SELECTION & SPECIFICATION DATA

Type	Graphite tile
Description	ErgonArmor Graphite Tile are high purity graphitized carbon tile made in custom dimensions for acid-proof tile construction.
Uses	<ul style="list-style-type: none"> • Floors • Trenches • Containment areas • Storage tanks • Sumps
Features	<ul style="list-style-type: none"> • Resistant to hydrofluoric acid • Resistant to fluorosilicic acids • Resistant to hot caustics • Resistant to nitric acid • Suitable to be bonded with ErgonArmor acid proof mortars and epoxy setting beds • High carbon • Low ash/impurity content • Made in USA
Limitations	<ul style="list-style-type: none"> • Not suitable for process vessels as a replacement for carbon brick lining. • Not for use beyond its chemical resistance or thermal capabilities. Consult ErgonArmor with specific questions.

INSTALLATION GUIDANCE

Reference Specifications	<p>CES-302 Installation of chemical resistant brick flooring using the bricklayer's method of construction and direct bond technique</p> <p>CES-309 Installation of corrosion-resistant tile/brick using the tile setter's method of construction</p>
Installation Conditions	Materials and substrate should be acclimated to the air temperature prior to installation. Tiles must be clean, dry and neutral pH.

SAFETY

Safety	Cutting and handling this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.
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PACKAGING & ESTIMATING

Product	Code	Size
ErgonArmor Graphite Tile	30704	1 x 6 x 12 inches
	30705	2 x 4 1/2 x 9 inches
	30706	2 x 9 key brick
	30710	2 1/4 x 7 5/8 x 8 inches

Other sizes are available made-to order. Consult ErgonArmor for details.

Theoretical Coverage Varies with tile size and side joint width.

Storage & Shelf Life ErgonArmor Graphite Tile have an indefinite shelf life. Store carefully to avoid chips or cracks.

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
Color	Black
Carbon content	99.9%
Density	107 lb/ft ³ (1,720 kg/m ³)
Porosity	15%
Compressive strength	>5,000 psi (34.5 MPa)
Flexural strength	>2,000 psi (13.8 MPa)
Tensile strength	>1,700 psi (11.7 MPa)
Thermal conductivity	2 BTU/(h·ft ² ·°F)

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