

**SELECTION & SPECIFICATION DATA**

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

**INSTALLATION GUIDANCE**

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

**SAFETY**

<b>Safety</b>	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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## Armor Graphite Tile

### PACKAGING & ESTIMATING

Product	Code	Size
Armor 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 Armor for details.

**Theoretical Coverage** Varies with tile size and side joint width.

**Storage & Shelf Life** Armor 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 <sup>3</sup> (1,720 kg/m <sup>3</sup> )
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 <sup>2</sup> ·°F)

Rev 11/2025

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