



General Shale Brick



Technical Bulletin - Block Fire Ratings

Concrete masonry units as manufactured by General Shale Inc. have Fire-Resistance ratings as listed below. These ratings are based on equivalent thicknesses as required by the International Building Code – 2018 Edition. These requirements are outlined in Table 721.1(2) of the IBC- International Building Code.

<u>Block</u>	<u>Equivalent Thickness</u>	<u>Fire Resistance Rating (Hours)</u>
12" x 8" x 16" Bond Beam – Concrete Filled	11.63 in.	4
12" x 8" x 16" Corner –Breaker Sash	6.46 in.	4
12" x 8" x 16" Stretcher (Cinder or Limestone Aggregate)	5.64 in.	3.5
12" x 8" x 16" Stretcher (Expanded Clay or Shale Aggregate)	5.64 in.	4
12"x 8" x 16" 75% Solid (B-4)	8.39 in.	4
12" x 8" x 16" Stretcher – Cores filled with vermiculite, perlite, expanded shale, clay, slate of slag aggregate	11.63 in.	4
8" x 8" x 16" Bond Beam – Concrete Filled	7.63 in.	4
8" x 8" x 16" Stretcher (Cinder or Limestone Aggregate)	3.91 in.	1.75
8" x 8" x 16" Stretcher (Expanded Clay or Shale Aggregate)	3.91 in	2.25
8" x 8" x 16" Special Production 53% Solid	4.04 in	2
8" x 8" x 16" Square End Stretcher	4.22 in.	2
8"x 8" x 16" 75% Solid (B-4)	6.38 in	4
8" x 8" x 16" Stretcher – Cores Filled with vermiculite, perlite, expanded shale, clay, concrete, slate, or slag aggregate	7.63 in	4
6" x 8" x 16" Bond Beam – Concrete Filled	5.63 in.	3.5
6" x 8" x 16" Stretcher (Cinder or Limestone Aggregate)	3.16 in.	1.25
6" x 8" x 16" Stretcher (Expanded Clay or Shale Aggregate)	3.16 in.	1.25
6" x 8" x 16" Solid	5.63 in.	3.5
4" x 8" x 16" Solid	3.63 in.	1.5
4" x 8" x 16" Stretcher(Cinder or Limestone Aggregate)	2.73 in.	1
4" x 8" x 16" Stretcher (Expanded Clay or Shale Aggregate)	2.73 in.	1

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