

**Fire Resistance Rating Test Report**

Job No.: 20-404-4  
Report Date: 9/18/2020

Manufacturer: Best Block (TX)  
Address: 2088 FM 949  
Alleyton, TX 78935

Testing Agency: National Concrete Masonry Association  
Address: Research and Development Laboratory  
13750 Sunrise Valley Drive  
Herndon, VA 20171-4662

Unit Description: 10x8x16 inch CMU

Date Samples Received: 9/2/2020

Date Tested: 9/13/2020

AGGREGATE INFORMATION \*\*\*\*\*

Aggregate	Type	Batch Wt (lb)	Unit Wt (pcf)	Volume (ft <sup>3</sup> )	% Volume
Expanded Clay	2	524	43.0	12.19	22.04
Calcareous Gravel	4	2311	100.0	23.11	41.79
Sand	4	2000	100.0	20.00	36.17
Totals		4835		55.30	100.00

CALCULATIONS \*\*\*\*\*

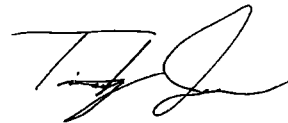
Calculated values used to determine performance values:

Avg Width	9.64 in.	Gross Volume	0.661 ft <sup>3</sup>
Avg Height	7.60 in.	Net Volume	0.3487 ft <sup>3</sup>
Avg Length	15.59 in.	% Solid	52.8 %
Avg Min FS	1.53 in.	Equivalent Thickness	5.09 in.
Avg Min Web	1.41 in.		

CERTIFICATIONS ISSUED \*\*\*\*\*

Fire: ACI/TMS 216.1-14 **3.0 hr**  
Code Requirements for Determining Fire Resistance of Concrete and Masonry Construction Assemblies

Note: The fire rating shown above was calculated based on information provided by the producer regarding the types of aggregates, and their proportions, used to manufacture the units.



Timothy Jones  
Manager, Research and Development Laboratory