



## Test Results

### Surface Burning Characteristics

Class A (Class I) Rating  
Flame Spread Index – 25 or less  
Smoke Developed Index – Less than 450

### Thermal Resistance

R-Value per Inch – 4.9 / inch @ 25°F mean temperature

### Dry Foam Density

.72 lb/ft<sup>3</sup>

### Formaldehyde Content of Cured Foam

2700 ppm total formaldehyde  
Zero detectable emissions  
(Below 0.81 ppm over a 24-hour period)

### Fire Resistance Rating

As with all foam-in-place insulation products, Applegate C Foam Insulation neither adds to nor detracts from the fire rating of a wall.

### Dimensional Stability (Shrinkage)

0.48 percent- 12x8x16 CMU Enclosed Wall Cavity

### Product Yield

1500-1600 8-inch CMU  
925-1075 12-inch CMU

### Shelf-Life of Blended Foam

60 Days

### Sound Transmission Ratings

8-Inch CMU with no Insulation  
NCMA - 49-52 dB  
OCBA -46-50 dB

8-Inch CMU with Applegate C Foam Insulation  
NCMA - 53-56 dB  
OCBA - 50-54 dB

### Compressive Strength

Load @ 10 percent - 5.21 pounds  
Sample size - 3x3x1 inches  
Stress @ 10 percent - .579 lb/in<sup>2</sup>

### Water Vapor Transmission Test

Average Permeance: 12 pers  
Average Permeability: 13 perm-in

### Open Cell Content

40 percent by volume