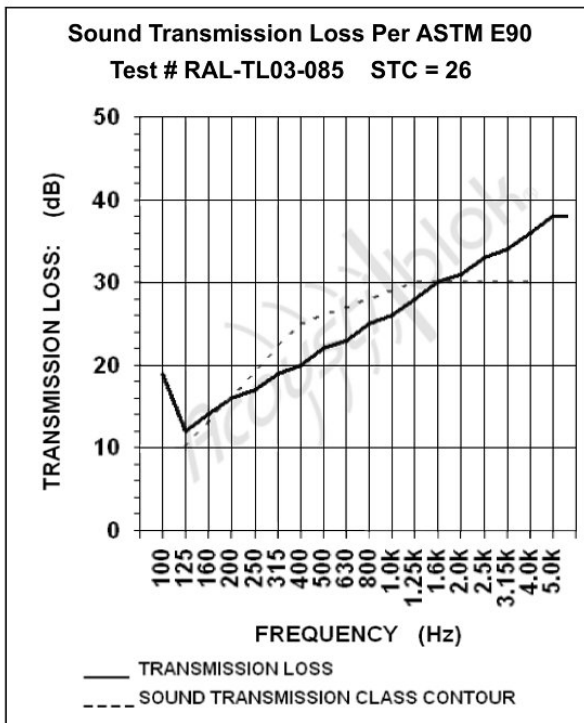




## 16 Oz Acoustiblok Sound Isolation Material: General Specifications



Acoustiblok® is the most efficient and cost effective solution for controlling transmitted sound in commercial, institutional, and residential construction. A standard wood stud & gypsum board wall with one layer of 16 oz. Acoustiblok (STC 52) blocks more sound than a 12" thick poured concrete slab (STC 51).

UL Classified for application in all wall and floor/ceiling construction in the U300, U400, V400, and L500 categories (277 designs), Acoustiblok assures compliance with life safety and building code requirements.

Acoustiblok sound barrier material cuts easily with a box knife and requires no special tools or skills to install.

Acoustical test reports for numerous wall and floor/ceiling designs are available from Acoustiblok on request. All our test data is taken directly from independent 3rd party laboratories under NVLAP certification.

SOUND TRANSMISSION CLASS is a single number that represents the sound blocking capacity of a partition such as a wall or ceiling.

STC numbers are often called out in architectural specifications, to assure that partitions will reduce noise levels adequately. For performance similar to laboratory test numbers, it is necessary to adhere closely to the construction materials and techniques used in the tested partition.

STC is calculated by comparing the actual sound loss measured when 18 test frequencies pass through a partition, with fixed values for each STC level. The highest STC curve that the measured sound loss numbers fit under, determines the STC rating of the partition.

STC calculations emphasize sound frequencies that match the human voice. A high STC partition will block the sound of human speech, and block noise that interferes with human speech. To estimate high and low frequency performance, consult the Sound Transmission Loss graph included in STC test reports. Impact Insulation Class (IIC) measure transmitted impact noise, and are normally specified for floor/ceiling assemblies only.

### 16 OZ ACOUSTIBLOK PHYSICAL PROPERTIES

- Minimum STC 26 per ASTM E90-02 & ASTM E413-87
- Minimum sound attenuation 19 dBA @ 100 Hz
- Width 54" ± 0.125" (1.372 meters ± 3.175 mm)
- Material thickness 0.11" ± 0.03" (2.79 mm ± 0.76 mm)
- Weight 1 lb. square foot (4.89 kg square meter)
- Color black
- High UV resistance
- Heat tolerance: 200 degrees F (93 °C) for 7 days, less than 1% shrink, no deformation
- Freezes at -40 °F (-40 °C). Do not unroll or flex frozen material. Properties not affected by freeze/thaw cycles
- No fungal or algal growth and no visible disfigurement, per ASTM D3273 and ASTM D3274 (rating = 10)
- Tensile strength min. 510 PSI
- UL Classified, file # R21490
- Weight, per roll:
  - 30' (9.14 m) = 150 lb. (68 kg)
  - 60' (18.29 m) = 300 lb. (136 kg)
  - 350' (106.68 m) = 1600 lb. (725.75 kg)