

**APPENDIX K**  
**SOUND TRANSMISSION**

**SECTION AK101**  
**GENERAL**

**AK101.1 General.** Wall and floor-ceiling assemblies separating dwelling units shall provide airborne sound insulation for walls, and both airborne and impact sound insulation for floor-ceiling assemblies.

**SECTION AK102**  
**AIRBORNE SOUND**

**AK102.1 General.** Airborne sound insulation for wall and floor-ceiling assemblies shall meet a Sound Transmission Class (STC) rating of 45 when tested in accordance with ASTM E 90.

**SECTION AK103**  
**STRUCTURAL-BORNE SOUND**

**AK103.1 General.** Floor-ceiling assemblies between dwelling units or between a dwelling unit and a public or service area within a structure shall have an Impact Insulation Class (IIC) rating of not less than 45 when tested in accordance with ASTM E 492.

**SECTION AK104**  
**REFERENCED STANDARDS**

ASTM E 90-99 Test Method for Laboratory  
Measurement of Airborne Sound Transmission  
Loss of Building Partitions and Elements . . . . . AK102

ASTM E 492-90 (1996)e Specification for  
Laboratory Measurement of Impact Sound  
Transmission through Floor-ceiling Assemblies  
Using the Tapping Machine . . . . . AK103

