

CTU Online Anytime Module 1.7 – Role of Membranes: Impact Sound Reduction

Key Takeaways

- ANSI A118.13 is the specification for bonded sound reduction membranes
 - These membranes lower the transmission of impact sound from one room to the room below
 - Tile can transmit noise from assembly to room below
 - There are two types of sound transmission classes to consider
 - Impact Insulation Class (IIC) – Impact sounds such as footfalls
 - Sound Transmission Class (STC) – Airborne sounds (voice, radio, etc.)
 - Membranes only address Impact Sounds (IIC)
 - Per ASTM E2179, membranes must reduce impact sound from room above by minimum of 10 decibels
 - Δ IIC = number of decibels contributed by the membrane according to E492
 - Floor and ceiling assembly in test consists of 6" concrete slab
 - Custom Building Products offers membranes of with a range of Δ IIC (delta) decibels conforming to IBC and IRC codes
 - The highest level of performance can be found in CUSTOM's EasyMat[®] membrane
 - Meets or exceeds ANSI A118.12: Protects against in-plane cracks up to ¼"
 - Meets or exceeds A118.13: 3mm = 16 Δ IIC, 5mm = 20 Δ IIC, 12mm = 23 Δ IIC
 - Set with mortar or primer with peel and stick backing
 - Will not shrink, rot or absorb water
 - Creates thermal break for radiant heat systems
 - Can be used in place of cement or fiber board over OSB or non-standard substrates
 - Interface material

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