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MICRO FIBER®
Technology and Ingenuity for Green Buildings

# MicroVibrant®

*Noise & Vibration Product*

## Architectural & Structural Isolation System

## ACOUSTI-MAX® CLP

**EXCELLENT Δ (Delta) IIC per ASTM 2179-03 FOR FLOOR, WALL & ROOF**

**NEWLY INVENTED MATERIAL PROVIDING HIGH Δ IIC RATINGS**

### Product Description

This patented product is manufactured from 100% newly invented materials. It is a unique blend of various shapes and sizes of fibers. The blend of these fibers is a proprietary mix designed to provide excellent reductions in sound transmission and impact noise. This mat sheet product is a result of remarkable research & development with advanced blending technology. Our patented binder firmly bind fibers together, which provides a tough durable mat sheet with water repellent features. Acousti-Max CLP can be installed over concrete slabs, then topped with our special underlayment product to further enhance its performance. It greatly reduces sound transmission in **wall system**. This product is incorporated in our proprietary "anti-bugging" wall & floor system for those who demands highly secured rooms. It can be used as reinforcement of membrane in **roofing system** that combined with application of **Cell-Spray** will eliminate rain impact noise with much lighter load and very efficient treatment that reduces structural cost significantly.

### Physical Properties

| | |
|---|---|
| **Color** | Dark Gray |
| **Basic Weight** (per ASTM D-646) | 175 g/m² |
| **Thickness** (per ISO 534) | less than 1/16"(45 mils) |
| **Mullen Burst** (per ASTM D-774) | >200 psi (1.4 MPa) |
| **Air Permeability (Frazier)** | = 150 CFM (45.7 m³/min.) |
| **MD Tensile** (per ASTM D-828) | 30 psi (0.21 MPa) |
| **CD Tensile** (per ASTM D-828) | 30 psi (0.21 MPa) |

### Export Packaging

800 ft2 (4 ft width x 200 ft length) / roll.
4 rolls/box, 380 Boxes/40 ft Container.

### Product Installation

**Flooring System**

Acousti-Max CLP is installed on concrete sub-floor with CLP adhesive or slurry (may require shot-blasting for bonding purposes). Then CLP tape (self-adhesive) are installed on seams between sections and around walls, doorways, toilet collars and other floor penetrations. (See typical installation drawing below. Tests result and detail drawings presented in the following page.)

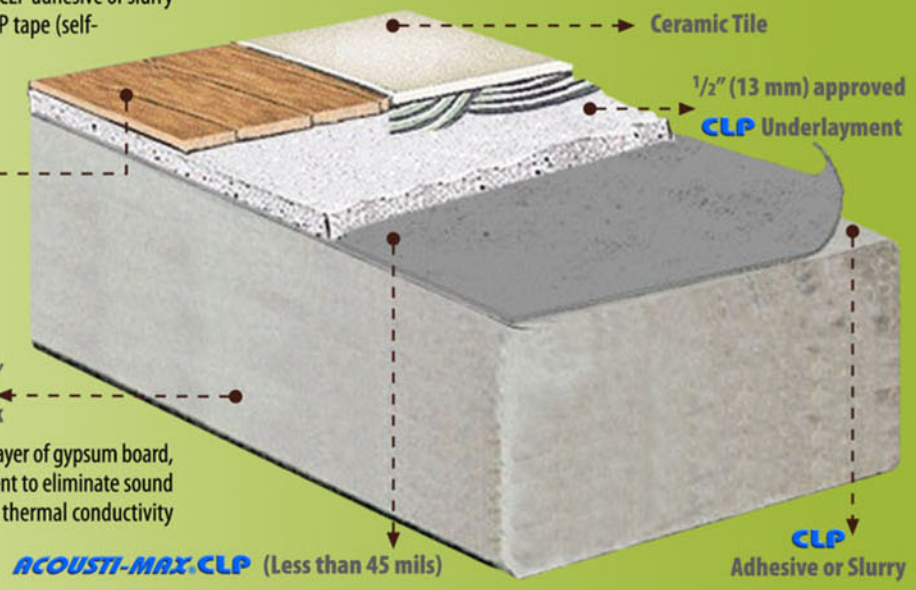
**Roofing System**

Acousti-Max CLP may be used to reinforce waterproofing layer and improve Impact Noise treatment. For optimum performance, add Cell-Spray to form excellent system layer against impact noise with high efficiency thermal resistance value for maximum building's energy conservation.

**Wall System**

Use Acousti-Max CLP for additional layer in between 2 layer of gypsum board, in conjunction with installation of Cell-Star acoustic treatment to eliminate sound transmission from adjacent rooms, and providing excellent thermal conductivity performance to save building's energy consumption.

### Typical Floor Installation



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## Sound Test Results

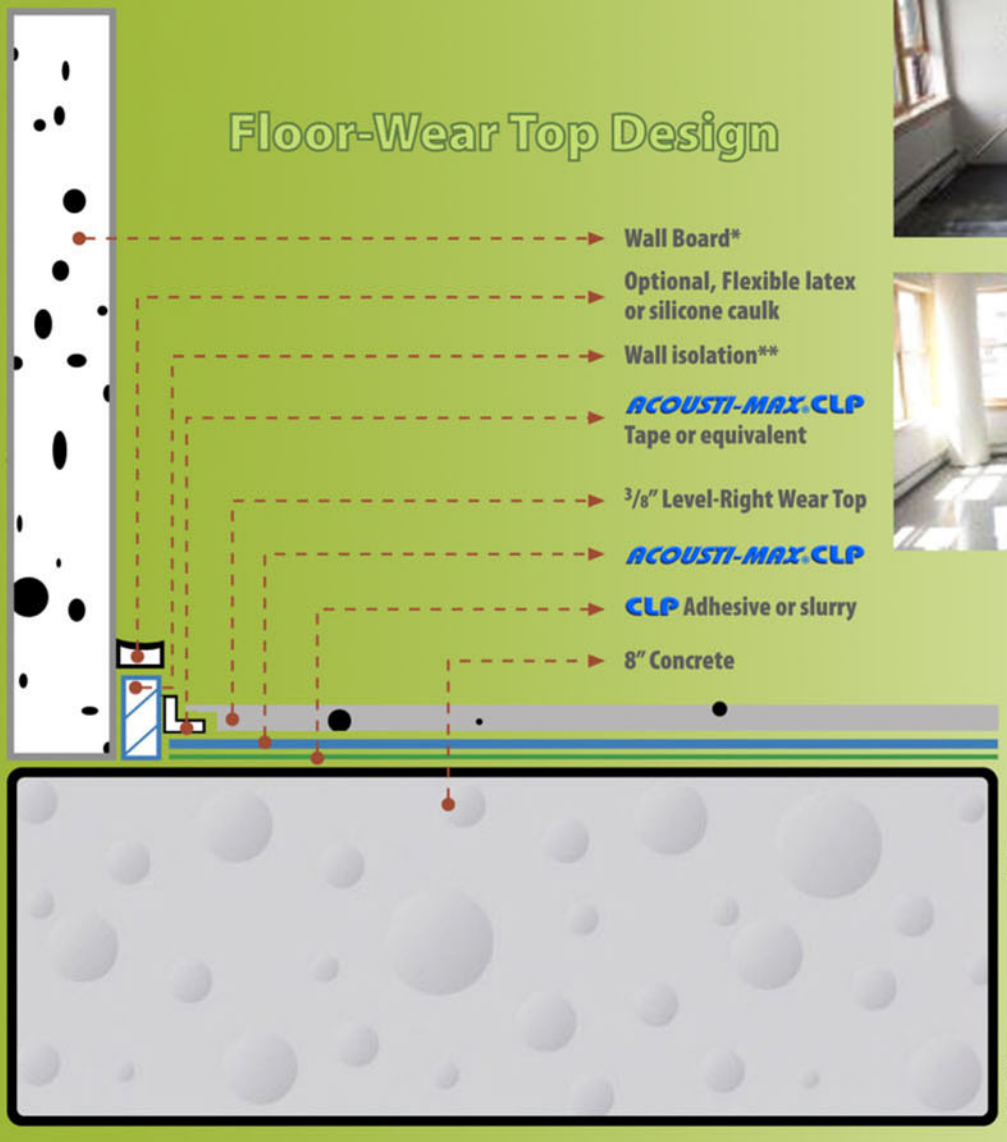
**Laboratory Tests Result: △ IIC 19 per ASTM 2179-03**

(By NGC-NVLAP, Stork Twin City Testing Corp. and Stork Materials Technology BV Holland)

## Field Sound Test Results

| Floor System | Bare Floor Rating | Wear Top W/AM-CLP | AMCLP W/ 3/4" Wood |
|---|---|---|---|
| 8" Concrete No Ceiling | 40 F-IIC | 62 F-IIC | |
| 8" Concrete (CW lofts) No Ceiling | 37 F-IIC | 59 F-IIC | |
| 8" Concrete with 2" Ceiling Below (5/8" Gypsum Board) | 42 F-IIC<br>A-STC 62 | | 60 F-IIC |

## Installation Drawing




* Wall Board must be installed within 1/2 inch of sub floor.

** Wall isolation is installed around the perimeter of the entire room and around any floor penetrations such as toilet collars, electrical, plumbing, etc.

Various profile for wall applications are available upon request.

**NOTE:**

For product Approvals & Ratings, Technical Specifications and Standard Compliances - Please refer to Page - 14 and 15.

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