

The background image shows a professional recording studio. On the left, there is a control desk with multiple computer monitors displaying colorful abstract patterns and a digital audio workstation interface. A large, white, geometrically shaped acoustic panel is mounted on the wall behind the desk. To the right, a large window looks out into a recording space where a stage is visible, illuminated with purple and blue light. Above the window, a digital clock displays '16:28:33'. On the wall above the window, there are several large monitors showing various camera feeds of the stage. The ceiling is dark with track lighting. The overall atmosphere is modern and high-tech.

**MECART**  
STUDIOS

# MODULAR STUDIO MANUFACTURER

Craft meaningful art, uninterrupted. Our high-performance studios let you focus on your vision, free from noise and distractions

## YOUR SOLUTION TO PRODUCE PREMIUM AUDIO/VIDEO

Through 50 years of acoustics expertise, MECART designs, engineers, manufactures and installs high-quality acoustic environments and premium studios worldwide. We understand the importance of flexibility in recording studio design. That's why we offer a complete in-house solution, from expert engineering and design to high-quality manufacturing – all overseen by our rigorous ISO 9001 certified Quality Assurance system. This ensures you get a studio that perfectly meets your needs. Thanks to our manufacturing plants in Canada and the US, we can guarantee precise delivery dates and remain on budget.

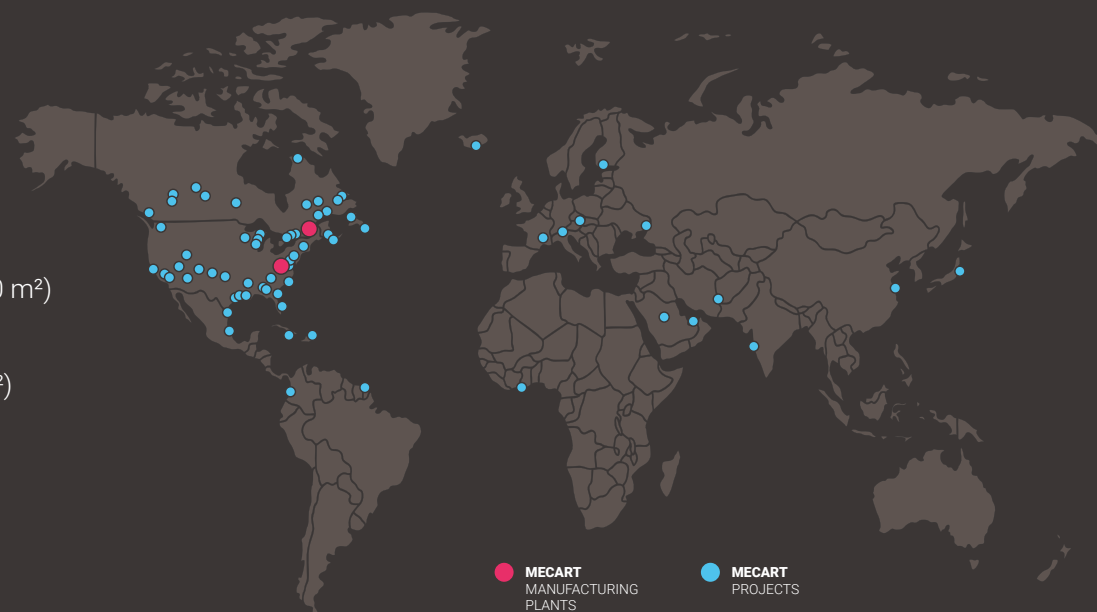
We craft premium recording studios customized to your specific needs. Competitive pricing ensures your budget is optimized, on-time deliveries keep you on track, and exceptional customer service means you're never left in the dark. Our focus is your success – empowering you to create captivating audio and/or video experiences that move the world. With MECART, your studio becomes more than a space – it becomes a launchpad for the entertainment the world craves.



### HIGHLIGHTS

- Over **4,000 projects** completed worldwide
- **150+ employees**
- Canada: **32,500 sqft** (3,020 m<sup>2</sup>) manufacturing plant
- USA: **31,500 sqft** (2,926 m<sup>2</sup>) manufacturing plant
- **ISO 9001** Certified System

Learn more on our website:  
[mecart.com](https://mecart.com)



## WHAT ARE MODULAR STUDIOS?

Modular studios are self-contained, pre-engineered, and customizable recording environments made from prefabricated, interlocking steel panels - a flexible high-end alternative to traditional stick-built studios.

Walls, ceilings, floors, windows, and doors are custom engineered and factory-built to provide pro-level soundproofing/dampening to ensure your production environment is noise free.

### MODULAR STUDIOS ARE IDEAL FOR:

- **Broadcasting:** Live and Podcasting
- **A/V Post-Production:** Grading, Mastering & Editing
- **Music Production:** Recording, Mixing & Mastering
- **Soundstages:** Virtual Production

## IN-HOUSE ACOUSTICIAN - GUIDING YOU THROUGH THE PROCESS

At MECART, acoustics is a priority. We understand the importance of crafting the perfect soundscape that caters to your specific needs. That's why we have a dedicated acoustician on staff, ready to ensure your vision becomes a reality.

### CONTINUOUSLY EVOLVING STUDIOS: MECART'S R&D COMMITMENT

At MECART, we believe we can always push the boundaries further. That's why our R&D team continuously breaks new grounds in engineering and construction. They meticulously improve every detail of our studios and components, maximizing their performance while minimizing your costs.

### SILENCE THE DOUBT: GUARANTEED PERFORMANCE WITH EXPERT-TESTED STUDIOS

Our experts ensure our studio components (walls, windows, doors) meet the highest standards by conducting comprehensive acoustic performance assessments and closely tracking the results. We go beyond simply making claims. We deliver peace of mind with verifiable results, to ensure your studio meets your expectations.

### EXPERT GUIDANCE: BENEFITS FROM 20+ YEARS OF EXPERIENCE

Benefit from over two decades of expertise in acoustics and recording studio environments. Say goodbye to costly errors as we guide you toward optimal sound quality.

**From soundproofing solutions to tailored acoustic treatments, let us guide you in achieving the perfect soundscape.**

## MECART STUDIO APPLICATIONS

### STUDIOS

The heart of your creative process. Our studios are designed to provide a spacious and inspiring environment for sound design, recording, mixing, post-production and mastering. Constructed with high-quality soundproofing materials, our studios ensure pristine audio capture and a comfortable working environment custom-designed to your liking and requirements.

- Music Recording, Live Broadcasting, Sound Design and Mixing
- Audio Post-Production, Broadcasting, Music Practice Room, Virtual Production, Editing, Grading

### SOUND BOOTHS/VO BOOTHS/ISOLATION BOOTHS

Focus on your voice. Need crystal-clear vocal recordings? Our sound booths (or VO booths) offer exceptional sound isolation and treatment for flawless recordings. These compact and comfortable spaces are ideal for:

- Voice-Overs
- Foley & Sound Effects
- Podcasts
- Dialogue Recording (ADR)

### PRODUCTION SUITES/STUDIO CONTROL ROOMS

Command center for your sound. Our production suites, also known as studio control rooms, are the nerve center of your audio production workflow. The prefabricated panels of our production suites are already prepared to facilitate the passage of all A/V services and cables. They allow you to precisely control and manipulate your sound with ease.

MECART can create studio environments acoustically treated to provide a neutral space with the necessary infrastructure for multiple monitor systems (e.g., Dolby Atmos mix room) where even the finest details of your production can be precisely identified, optimizing the audio and its spatial provenance for an enveloping 3D audio experience. Host a winning client pitch and immerse them in a full dynamic range experience with premium acoustics and state-of-the-art modular studios.



## PREFAB CONSTRUCTION RELIEVES ACOUSTIC CONCERNS

Modular studios offer **premium acoustic performance**.

Traditional construction relies on individual crews and can lead to noise leakage - Where one team drills holes to install outlets, another pokes holes for door handles, while yet another drills additional holes to install lights - all possible points of failure if not done perfectly - **you're only as good as your weakest link**.

In contrast, factory-built modular panels ensure quality control and eliminate errors from the get-go. Nothing is left to chance, everything is thought through and part of the design.

This means **you get a studio built to exact specifications, free from soundproofing weaknesses**. With MECART modular construction, you're assured optimal performance for all your studio needs.

## NO STUDIO LEFT BEHIND: RELOCATE WITH EASE WITH MODULAR DESIGN

No need to worry about losing your studio investment when leasing or relocating, as our **modular studios disassemble and reassemble easily, allowing them to follow you to your next location** - without compromising acoustic performance.

The ease of assembly and disassembly and their modular design allow for easy expansion by adding panels and adapting to your evolving needs. **Modular studios can be the cornerstone of your growth and creative journey**.



*"I can't believe we are moving already. It's a good thing we can take our studios with us! Purchasing MECART studios was one of the smartest things I ever did! Let's just say that I'm in management's good books at the moment."*

- Marie-Elaine Nadeau, Executive Producer, Logistics and Production **a+traction**



### THE FINANCIAL FLEXIBILITY OF MODULAR STUDIOS - A FINANCIAL ASSET

Modular studios can be valuable financial assets turning them from liability to asset. They can also be classified as equipment, instead of real estate. And since you own them, they can be sold, which wouldn't be an option if you were constructing your studio using traditional methods. In certain states and provinces, this may also decrease the number of permits needed to set up your new studios, making your studio project much simpler and quicker to go online.

### LONG-TERM COST EFFICIENCY WITH MODULAR STUDIOS

While the upfront expenses may seem slightly higher, modular studios prove to be a cost-efficient solution for various reasons.

- **Faster revenue generation:** You can start using the studio and generating income sooner as modular is 30% to 50% faster to complete than traditional construction.
- **Relocation potential:** This provides an advantage over a permanent structure if your business needs change, resulting in significant cost savings.
- **Fewer Cost Overruns:** The controlled factory environment minimizes unforeseen issues that can lead to cost overruns during traditional construction. Modular studios have a more predictable final cost, potentially saving money in the long run.



### EASIER PROJECT MANAGEMENT

#### QUICK ON-SITE INSTALL, LESS TRADES INVOLVED & NO NOISE LEAKS

#### FASTER ASSEMBLY

Prefabricated modular studios are designed for efficiency. They arrive pre-engineered to create a fully sealed, soundproof space and with the added benefit of quick assembly on-site. **This translates to significant time savings for your project.**

#### LESS TRADES INVOLVED FOR SIMPLIFIED PROJECT MANAGEMENT

Plumbing, electrical, and cable raceways can already be totally integrated within the panels. This reduces the number of trades required onsite, instead of managing a dozen workers from different trades, each with their regulation bodies and potential scheduling conflicts.

#### NO NOISE LEAKS

By using prefabricated panels, you **reduce the risk of errors from individual trades who may not be soundproofing experts.** An electrician unfamiliar with soundproofing could introduce unintended noise leaks - a problem completely avoided with pre-engineered modular solutions.



*"The coolest thing for me was watching the entire studio come together from nothing to completed in a week. And it was just really fantastic."*

- Quinn Warwick, Assistant Vice Provost for Technology-Enhanced Learning





## MODULAR STUDIOS ADVANTAGES OVER STICK-BUILT

### MORE AFFORDABLE THAN THE COMPETITION

MECART offers budget-friendly modular recording studios compared to competitors. Our modular design keeps costs down without compromising quality or acoustics. Thom Mohrman, Principal Chief Engineer at Sirius XM Radio, praised MECART's affordability during their studio selection.



*"When we quoted it, the price was significantly less than the competitors. So it made these decisions simple because it met our budget, and it was way less than what the competition had quoted. It checked all of our boxes."*

- Thom Mohrman, Principal Chief Engineer **SiriusXM**

### TURNKEY STUDIO SOLUTIONS

MECART offers a complete turnkey solution, handling everything from custom design to soundproofing and acoustic treatment (on demand). This ensures your studio is delivered ready to use, reducing the necessary work on your end.

We understand you may already have an existing design team or trusted partners. MECART can seamlessly integrate its modular studios into your existing space, collaborating with your in-house experts or third-party firms to assure a perfect fit.



## DESIGN LANGUAGE

### DARK MODE

### TWO NEUTRAL MOODS FULLY CUSTOMIZABLE

— Inspired by nature, forged by steel —  
Our designs blend elements of nature with technology, drawing inspiration from earth's textures and combining them with the precision and power of steel. It's a fusion that ignites creativity, a space where artists fall into the right mindset to craft art that is emotive, tactile, and inspiring.

### A SPACE TO MAKE YOUR OWN

### LIGHT MODE





## DARK MODE

## NATURE MEETS FUTURE

## NATURAL FINISHES

- Slate
- Stone
- Stained Black Woods

## BLACK ON BLACK COLORS

Highlights through indirect diffused light

## MOOD

Sleek, efficient, precise, zen - a blank slate to create inside of

## GOAL

To work with minimal distractions - Focus on creating



## LIGHT MODE

## NATURE MEETS CALMNESS

## NATURAL FINISHES

- Polished Stone
- Cotton
- Wood

## CREAM COLORED RELAXATION

Highlights with indirect & hard lines of light

## MOOD

Cream colored relaxation smooth yet precise - A place to get in the right creative mindset

## GOAL

Stress-free - Reset from the outside world







(((SiriusXm)))

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## CASE STUDY

### VIDEO PRODUCTION STUDIO - VIRGINIA TECH



**LOCATION**  
Blacksburg, Virginia

**INDUSTRY**  
University, Education

**APPLICATION**  
Video Production

**SIZE**  
20' X 12' X 12'

**STC RATINGS**  
STC 55



## CHALLENGE

Virginia Tech struggled to find a video production studio solution for their noisy open office and space constraints, while needing expert guidance on defining their exact acoustic needs. There was a concern in minimizing changes to the base building.

## SOLUTION

MECART delivered a custom-designed, modular soundproof video production studio. This studio fit within the existing footprint of Virginia Tech's office space while also dampening the intense noisy environment, giving them an ideal space for video production.



## QUICK AND QUIET

Virginia Tech recognized the uphill battle from the start: a noisy office environment, limited space, and possible blind spots about potential acoustic issues in a studio setting. This awareness, however, didn't easily translate into a solution.

Despite contacting various studio manufacturers, they struggled to find a comprehensive answer, particularly one that effectively addressed the critical need to dampen noise from the adjacent offices. Virginia Tech's quest for the ideal studio solution concluded with MECART modular studios. Our design and expertise ticked all the boxes.

- The MECART modular studio system seamlessly integrated into their existing office space. In less than a week, the studio was up and running, requiring no renovations and causing minimal disruption.
- MECART's STC 55 soundproofed studio creates a quiet haven for video production and wouldn't interfere with the other work that's going on in their office space. It effectively blocks noise from both directions, ensuring uninterrupted work for both the video crew and office staff.

## MECART GUIDES VIRGINIA TECH TOWARDS OPTIMAL ACOUSTICS

While the client knew their environment was noisy, they lacked specific knowledge about the necessary acoustic performance for their needs. Recognizing this gap, the MECART team, including our Technical Sales Manager, and our dedicated acoustician, actively guided the client's understanding of acoustics to help them identify the right solution. Quinn Warnick, Assistant Vice Provost for Technology-Enhanced Learning, was happy to be guided from the outset, greatly reducing his concerns about acoustic problems and performance.

With a wealth of experience from past studio projects, MECART has honed their expertise in acoustic solutions. We are proud to leverage this knowledge to empower our clients by guiding them towards the right acoustic solutions.



*"As far as the performance is concerned, we were really guided by MECART on that. We started the sales intake process and they started making recommendations. And ultimately, the final version of what they came up with was exactly what we needed."*

- Quinn Warnick, Assistant Vice Provost for Technology-Enhanced Learning 



## CASE STUDY

### 16 SOUND BOOTHS FOR MUSIC PRODUCTION STUDIO IN LOS ANGELES



**LOCATION**  
Santa Monica, California

**INDUSTRY**  
Music Production / Recording

**APPLICATION**  
Studio Pods for Music Recording Program

**SIZE**  
10 units: 8' X 13' &  
6 units: 8' X 10'

**STC RATINGS**  
STC 50

## CHALLENGE

Space constraints and California permitting hurdles threatened to derail the project. Sixteen sound booths, without sacrificing acoustics, proved a tight squeeze for the venue.

## SOLUTION

Modular studios offer a significantly smaller footprint compared to conventional stick-built studios. Opting for the MECART modular system allowed them to accommodate 16 studio spaces while maintaining exceptional acoustic performance. In this project, modular studios were categorized as equipment, alleviating permit issues and ensuring the project stayed on schedule.

### MECART'S MODULAR STUDIOS TACKLE SPACE AND PERMIT CHALLENGES FOR LAAMP

The solution came in the form of MECART's modular studios. These prefabricated units offer a significantly smaller footprint compared to traditional stick-built constructions. This allowed LAAMP to accommodate all 16 studios within their desired space while maintaining exceptional acoustic performance.

But the benefits went beyond space efficiency. MECART's modular design also eased the lengthy permitting process typical of California construction projects. Categorized as equipment, modular studios faced minimal permitting hurdles, ensuring LAAMP remained on schedule.



### NO SACRIFICE IN ACOUSTIC PERFORMANCE WITH MECART MODULAR STUDIOS

The main risk of having multiple sound booths next to each other is sound bleed, sound from one booth could leak into another, especially if the walls and door aren't properly soundproofed.

This can be particularly problematic for a music production school, who requires top-notch acoustic performance for their students and recording/production sessions. There are ways of mitigating these risks, to offer a premium acoustic environment.

- **Construction Materials:** Using high-quality soundproofing materials for your studio walls, ceilings and doors. MECART steel wall panels offer soundproofing ratings up to STC 62.
- **Air Gaps:** Leaving a small air gap between the walls of the booths and the surrounding structure. This can help to further isolate sound. In its studio design for LAAMP, MECART left 3 inches air gaps between each sound booth.
- **Ventilation (HVAC):** A proper ventilation system with silencers is crucial to ensure fresh air without compromising soundproofing.

Leverage MECART's 20+ years of expertise to design your dream studio and achieve optimal sound quality. Our experts can help you solve any acoustic problems you encounter.



## CASE STUDY

### RECORDING, MIXING ROOMS AND VO BOOTHS FOR MARKETING AND ADVERTISING STUDIO



**LOCATION**  
Montreal, Canada

**INDUSTRY**  
Marketing agency/  
Multimedia

**APPLICATION**  
Audio post-production

**STUDIO SIZE**  
19' x 17' x 8' each

**SOUND BOOTH SIZE**  
10' x 9' x 8' each

**STC RATINGS**  
STC 55

## CHALLENGE

Creating a studio space that encourages creativity with a modern touch, providing a cozy and relaxing environment for extended work sessions, and ensuring professional-level acoustic performance.

## SOLUTION

Modular studios and sound booths that achieve a high level of sound isolation and boast a modern aesthetic to complement the client's brand image. Design elements were incorporated to create a comfortable and inspiring work environment.

## CUSTOM-DESIGNED STUDIOS

The client sought to enhance their marketing and advertising capabilities with the addition of two recording and mixing rooms, each featuring a dedicated voice-over (VO) booth. MECART was chosen to design and build high-performance studios that encourage creativity in a laid back environment. Our team addressed the customer's needs and delivered a solution tailored to their requirements.

- **Optimal Acoustic Environment:** MECART delivered studios boasting a Sound Transmission Class (STC) rating of 55, made from our fully integrated prefabricated panels. This ensures pristine audio recording for both mixing and recording.
- **Customizable Size to Fit Office Space:** The modular studios were built to the client's exact specifications, measuring 19' x 17' x 8' for the recording and mixing rooms, and 10' x 9' x 8' for the VO booths.
- **Modern Look and Feel:** A sleek matte black finish was applied to the studios, seamlessly integrating with the client's brand image. Flush-mounted windows provided a clean and modern aesthetic.



## ENDLESS DESIGN POSSIBILITIES WITH MECART MODULAR STUDIOS

MECART offers a design springboard with two neutral mood options, but customization is our specialty. You tell us your vision, and we'll craft the perfect solution. That's exactly what we did for our client who had a completely unique concept in mind. With the shared goal of fostering creativity, MECART incorporated additional design elements to bring their vision to life, creating an environment that's both stimulating and nurturing.

- **Warm Wood Accents:** Extensive wood paneling was incorporated throughout the studios, including the floors and acoustic ceiling panels. This not only added a touch of elegance but also contributed to employee and client well-being, as evidenced by research on the positive effects of wood in workspaces.
- **Enhanced Aesthetics and Acoustics:** Custom-designed acoustic panels featuring iconic music legends further personalized the space while optimizing sound treatment.
- **Mood Lighting:** Dimmer switches allowed for adjustable lighting, enabling audio engineers to personalize the ambiance for each project.



## UNDERSTANDING STC RATINGS AND THEIR IMPACT ON STUDIOS

STC stands for Sound Transmission Class. It's a single number rating metric for surfaces (walls, doors, windows) based on their ability to reduce sound passing through them. STC measures how well the surface blocks sound transmission.

It's like a volume knob for sound leakage. A higher STC rating means the knob is cranked all the way down, lowering noises trying to get in or out of the studio.

### WHAT STC RATINGS MEAN FOR STUDIOS

For professional-quality audio and recordings, you want a high STC rating for your studio shell, ideally in the 50-65+ range, blocking most outside noise for optimal sound isolation. This translates to cleaner, crisper audio that benefits post-production work and meets industry standards.



## PRODUCT FEATURES

### MECART STC WALLS

**Superior Soundproofing:** Our prefabricated steel wall panels deliver professional-grade sound isolation with STC ratings up to 62, ideal for all studio applications.

**Integrated Flexibility:** Our wall panels offer the flexibility to seamlessly incorporate electrical outlets, mechanical components, AC units, silencers, plumbing, or any other required elements. With our panels custom-made to your specifications, you can easily integrate everything you need.

**Fast and flawless setup:** The MECART modular design with an interlocking system ensures a perfect seal for zero noise leakage and a quick, hassle-free installation.



### MECART STC DOORS

**High Sound Isolation:** MECART acoustic doors offer lab-tested soundproofing of up to STC 53, effectively reducing noise transmission.

**Superior Sealing:** The doors create a complete seal when closed, with a single, double, or triple gasket system with bumper or flat thresholds to prevent sound leakage.

**Customization Options:** Available in single or double door configurations, MECART doors offer a wide range of customizable features, including hardware choices and various window types.



### MECART STC WINDOWS

#### Soundproofing Options:

- Standard windows utilize tempered glass and could offer a sound isolation up to STC 51 soundproofing rating with laminated options.
- We can create custom windows with an even higher sound insulation rating to meet your specific project requirements.

**Soundproofing Options:** MECART windows, like all our studio products, are made-to-order and available in a range of finishes, including a popular flush-mount option for a clean look.





POPULAR OPTIONS

MECART offers a blank canvas for your creativity. With 100% customizable studios, you can design a space that perfectly reflects your soundscape and workflow. From soundproofing to lighting, the possibilities are endless.

SOUND ISOLATION

MECART studio components offer STC rating between STC 35 to STC 62

TECHNICAL GRID

Overhead track system specifically designed to hold and maneuver studio equipment (lighting, cabling, remote cameras, etc.)

FULLY INTEGRATED NOISE ATTENUATOR (QUIET HVAC)

To reduce sound leakage through HVAC diffuser/grille

CABLE RACEWAY

Audio/video cable management solution

BASS TRAP CORNER PANELS

Low frequency sound absorbing panels

ACOUSTIC PANELS

To control sound waves and improve the overall acoustic environment

FULLY FLOATING FLOOR

Optional skirt molding available

CUSTOMIZABLE FLOOR FINISH

Carpet, wood, vinyl, etc.

SOUNDPROOF DOORS

- Single seal
- Double seal

THRESHOLDS

- Flat sill
- Recessed bumper threshold
- Bumper threshold

DATA SHEET - PANEL

MATERIAL

16-Gauge galvanized steel (2.5mm), satin finish

DIMENSIONS

4" thick, ±0.0625" on linear DIM (length and width), allowable surface flatness: 

0.500

PAINT - COATING

Powder-coated paint  
Hardness - 2H (highly scratch resistant)  
Adherence - 4B-5B

COLOR

MECART Matte Black  
MECART Ivory  
(other colors optional)

SURFACE FINISH

Matte or Gloss

MECHANICAL CAPACITY

3,000 lbs of compression resistance per panel  
Walkable ceiling; 20 lbs/square foot (standard)

STRUCTURE

Added as needed within our walls and ceiling panels to allow for spans of up to 45' without additional columns.

STANDARD CORE

Meets the requirements for Class1/A when tested per ASTM E2768 and ASTM E84 (tunnel testing) for flame spread and smoke development measurements.

- FSI Flame spread index – 0
- SDI Smoke development index – 50
- Limited combustible NFPA 259 ≤ 3,500Btu/lb

NOISE REDUCTION

Sound transmission class: STC 35-62

THERMAL INSULATION

Standard insulation value: R-15.5

1. Tests carried out according to ASTM D1308
2. Refer to MECART's cleaning process for more detailed information





NOISE CONTROL

CLEANROOMS

STUDIOS



**MECART**  
CONTROLLED ENVIRONMENTS

**Manufacturing Plant, USA**

208 Old Fork Shoals Rd,  
Greenville, SC, United States 29605

**Manufacturing Plant, Canada**

110, Rotterdam Street,  
St-Augustin-de-Desmaures, QC, Canada G3A 1T3

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