

# MERLIN Architectural Products

Designed Solutions. Done Right.

**merlin**  
ARCHITECTURAL PRODUCTS



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## Designed Solutions. Done Right.

MERLIN has long been a partner of choice for today's leading architects and interior designers. We proudly offer the largest selection of Architectural Noise Control products throughout the industry. Architectural products that you can rely on as all products come with full lab test data and have been tried and tested repeatedly through numerous in-field applications.

In addition to offering the highest quality and largest selection of noise control products, we also offer locally based technical support. We will be on site throughout the life of the product and are readily available to answer any questions throughout the process.

## Merlin Noise Control

For more than a decade MERLIN Noise Control has been a leader in delivering effective noise control solutions throughout Western Canada. With our integrated engineering, best-in-class products and services and unwavering commitment to delivering client excellence, we have been a partner-of-choice for today's leading organizations, creating a more peaceful and harmonious environment.

## Quiet Your Facility with Confidence

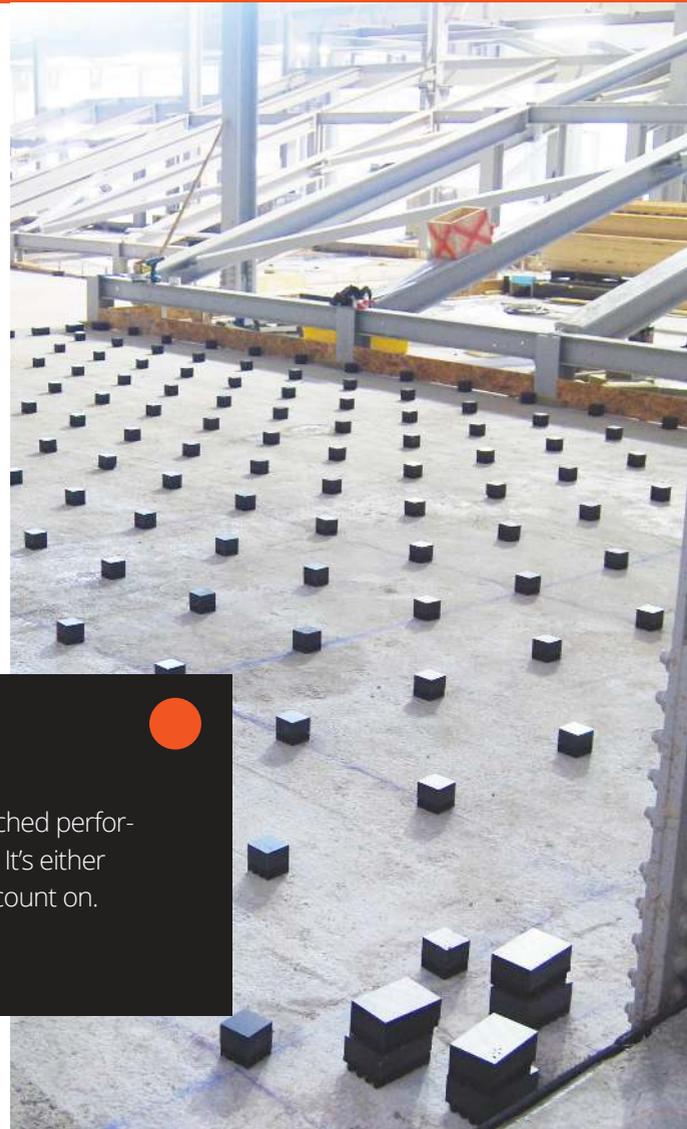
Our extensive portfolio of proprietary noise reducing technologies represents the widest range of proven industrial noise abatement solutions and equipment in the industry.

## Customer Centric Approach

At MERLIN, our number one priority is delivering client excellence in everything we do. We know our long-standing reputation of being a leader in quality noise control is only as good as our last job, our last performance. That's why delivering above and beyond, and always surpassing client expectations isn't just a notion, it's at the core of everything we do. Putting you first, always.

## Guaranteed Performance

At the heart of MERLIN Architectural Products is our unmatched performance guarantee. We stand behind what we make. Period. It's either done right or we will make it right. And that you can always count on.





## Floating Floors

With advanced systems and techniques, acoustic floating floors systems have proven highly effective in preventing noise passing through the floor ceiling assembly as well as isolation against vibration and impact. They are used to control the transmission of noise or vibration between noisy and quiet environments. Typically, acoustically isolated walls and ceilings are built on the floating floor to create a 'box-in-box' construction. This solution greatly reduces the noise levels or energy transmitted to the quieter area.

MERLIN has an extensive history of working closely with architects in developing and installing effective acoustic floating floors to minimize noise and vibration transmissions. Based on the nature of the noise and vibration, there are several acoustic flooring systems available including concrete and lightweight floor systems.



## Concrete Floating Floors

Concrete floating floors comprise of a reinforced concrete layer, supported by isolators, either rubber or spring. These floors typically use a jack-up system to raise the concrete floor as this offers a number of construction and acoustic benefits. Concrete floating floors are stable and, due to high mass, offer the best possible isolation performance.

## Lightweight Floor Systems

Lightweight floor systems can be quick to build, do not impose a high mass on the existing structure and can be cost effective for small areas. Floor typically comprise of a number of board layers supported on either LDS rubber floor isolators or low-profile springs when impact is a concern. At MERLIN our specialized experience in Acoustic Floating Floors ensures the floor has adequate stiffness and mass to perform correctly.

## Ceiling Hangers

Ceiling hangers are an efficient and effective solution for the isolation of airborne and impact noise. Key to the success of this is selecting the right application and design to maximize overall impact. Working with today's leading architects we outline specific parameters to achieve the best results possible. These include:

- Total weight of suspended acoustic ceiling
- Distance Between acoustic hangers
- Load per acoustic hanger
- Adapting acoustic hanger to type of beam

Through calculations, analysis and an extensive experience of working with ceiling hangers, we are then able to provide the most effective solution.

By taking the time at the beginning, our experience has shown that correctly selected ceiling hangers saves in both time and money, while still providing optimal acoustical improvement for your project.



## Floor Underlayment

Floor underlayment provides an isolation layer to help prevent structural sound from passing through the completed assembly. Floor underlayment is engineered to provide superior impact sound insulation and better performance over other sound control materials. Overall features and benefits include:

- Greatly reduces impact sound
- Increases IIC and STC ratings
- Can also conceal minor subfloor irregularities

At MERLIN we work closely with you in selecting and installing the best underlayment product for your project. Further reducing your environmental footprint, MERLIN also works with notable suppliers that use recycled materials in the development of the floor underlayment product.

## Isomax Wall Isolation Clips

Wall isolation clips are an efficient, effective and reliable means for noise and vibration control, absorbing and breaking up airborne sound at the transfer point. Our proven product selection combined with our experienced installation services continues to outperform standard equipment and methodologies because of the unique natural absorbing characteristics.

### Benefits

- Offers a robust and higher performing alternative
- Out-performs standard resilient bar construction by up to 7dB
- Withstands greater loads than standard systems to provide peace of mind
- Works as a space saving solution for either existing or new wall constructions with minimal encroachment into living space
- Engineered thermoplastic rubber outperforms standard rubber because of its sound absorbing characteristics
- Has consistent and reliable quality – manufactured under ISO 9001 quality control system
- Offers one of the most cost-effective methods to achieve superior noise control in walls



## Credentials

As a recognized leader and professional engineering firm (registered in the provinces of Alberta and BC), we proudly adhere to all regulations and guidelines to ensure the highest value in deliverables. That is why we are proud of our memberships with provincial bodies, national associations and international operations.

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### MERLIN is a member of APEGA

The Association of Professional Engineers and Geoscientists of Alberta (APEGA) regulates the practices of engineering and geoscience in Alberta on behalf of the Government of Alberta through the Engineering and Geoscience Professions Act.

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### MERLIN is a member of EGBC

The Association of Professional Engineers and Geoscientists of British Columbia is the regulatory and licensing body for Professional Engineers and Geoscientists in the Province of British Columbia, Canada.

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### MERLIN has an exception ranking with ISNetwork

ISNetwork is an online contractor and supplier management platform of data-driven products and services that help manage risk and strengthen relationships. To qualify, members have to undergo a rigorous qualification process and are routinely monitored.

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### MERLIN is approved and featured with Avetta

Through Avetta's contractor management services and prequalification services, they have built up an extensive network of pre-vetted supply chain partners to match to customer needs – ensuring qualifications, experience, workforce and certifications.

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### MERLIN is also approved and featured with ComplyWorks

ComplyWorks is a global leader in compliance management. With their global capabilities and local deployment, ComplyWorks covers the entire compliance life cycle, from contractor management, through to workforce, worksite and payment.

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### MERLIN is cleared and covered under WCB Alberta

WCB Alberta is committed to working with partners to significantly and measurably promote and reduce the impact of workplace illness and injury throughout Alberta.

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### MERLIN is cleared and covered under WorksafeBC

WorksafeBC is committed to working with partners to significantly and measurably promote and reduce the impact of workplace illness and injury throughout BC.

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### MERLIN is a board certified member of INCE, USA

INCE, USA is a Member Society of the International Institute of Noise Control Engineering and a non-profit professional organization focused on acoustic and noise control solutions to environmental, product, machinery, industrial and other noise problems.

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## MERLIN Integrated Solutions Total Solutions. Done Right.

For more than a decade MERLIN Integrated Solutions has been a respected authority in delivering Noise Control, Construction Services, Architectural Products and Operational Health and Safety throughout Western Canada. Our customer-centric approach combined with our unparalleled guarantee continues to define MERLIN and drives our team to setting the highest of standards for others to follow. This is further complimented by our unwavering commitment to always being at the forefront of each of our areas of focus, ensuring we are leaders in solving complex challenges through the most advanced solutions.

**merlin**  
INTEGRATED SOLUTIONS

**merlin**  
NOISE CONTROL

**merlin**  
CONSTRUCTION SERVICES

**merlin**  
ARCHITECTURAL PRODUCTS

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HEALTH & SAFETY

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