

Hydronic Snow and Ice Melting Systems

Comfort, Convenience and Safety in Cold Climates



REHAU

A World Leader in Hydronic Heating Systems

Over 27 years of experience in hydronic heating systems have placed REHAU at the forefront of snow-and-ice melting (SIM) and radiant floor heating (RFH) technology. During REHAU's two and a half decades of manufacturing RAUPEX®, our specially designed cross-linked polyethylene pipe, architects and engineers throughout the building industry have discovered they can depend on our SIM systems for a wide variety of applications.

- Driveways
- Hospital entrances
- Underground garage ramps
- Wheelchair ramps
- Parking lots
- Helicopter landing pads
- Sports facilities (turf conditioning/ field heating systems)
- Resort community roadways
- Car washes
- Sidewalks and steps
- Runways
- Any surface, public or private, residential or commercial that you want free of snow and ice buildup.

◀ *In snowy Banff, Alberta, REHAU's snow-and ice-melting system creates a toasty oasis for swimming and sunbathing. The RAUPEX pipe heats and dries the pool deck by circulating a heat transfer liquid (usually antifreeze and water).*



This REHAU SIM system, installed under a residential walkway which continues onto the driveway, frees the homeowner from snow removal chores and enhances safety throughout the cold season.

REHAU, an international leader in the plastics industry, has a 50-year history of polymer research and development that's supported by 39 manufacturing facilities and 81 sales offices worldwide. Our products are in evidence everywhere, from automotive and aerospace parts to vinyl windows and doors.

As pioneers in hydronic heating technology, we've installed over 1 billion feet (305 million meters) of RAUPEX. We have the valuable hands-on experience to help you design a SIM system that delivers safety and convenience, requires little maintenance and prolongs pavement life.

Hydronic Snow and Ice Melting How It Works

Essentials

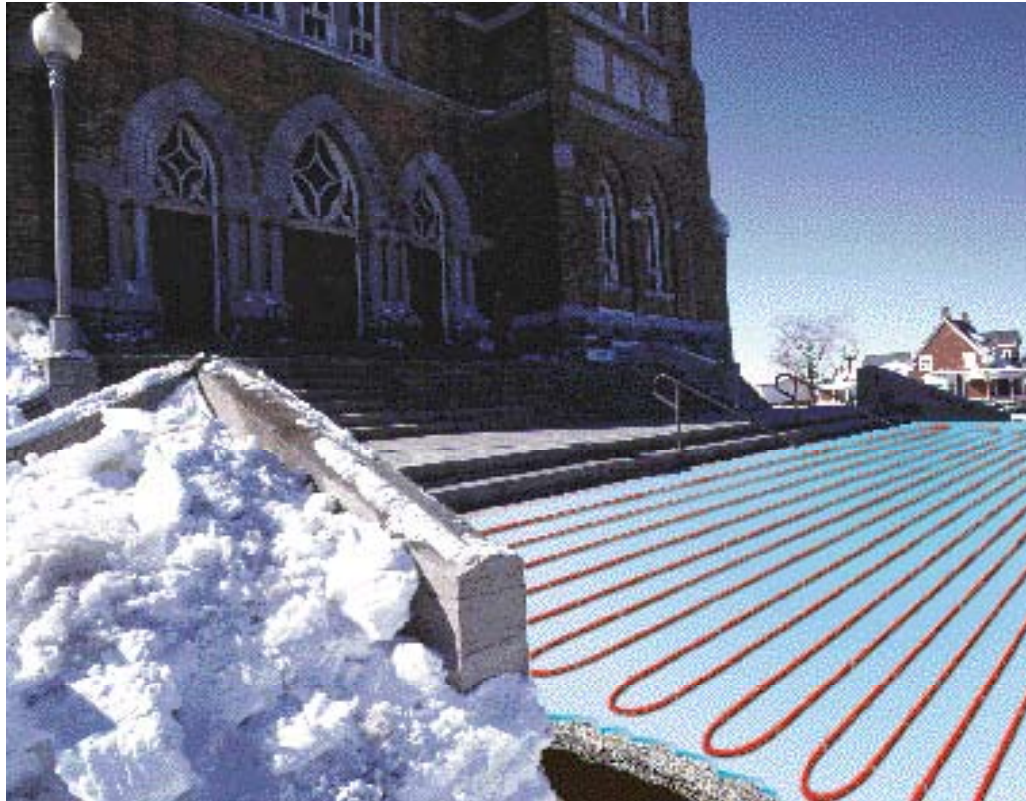
At the heart of every SIM system is our heat transfer pipe, RAUPEX. Manufactured in accordance with ASTM F877 and CSA B137.5, and available with an oxygen diffusion barrier meeting DIN 4726 standards, RAUPEX is a very durable, stable polymer that stands up well to strenuous use under various site conditions. Equally critical to superior system performance is EVERLOC®, REHAU's proprietary compression sleeve fitting, which ensures fast, secure connections wherever joints may be required.

Performance Factors

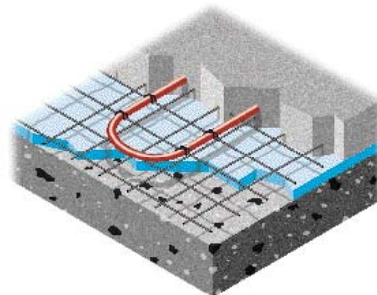
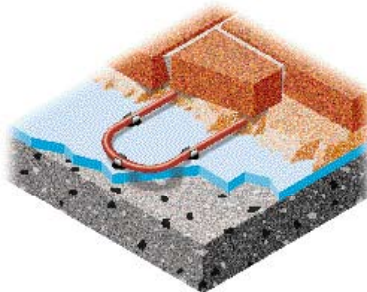
Since a SIM system is created for outdoor use, weather and site conditions will have significant impact on its performance. REHAU has the engineering and weather data to help you design a system with output capacity geared just right for conditions in your geographic area.

Flexible Installation Options

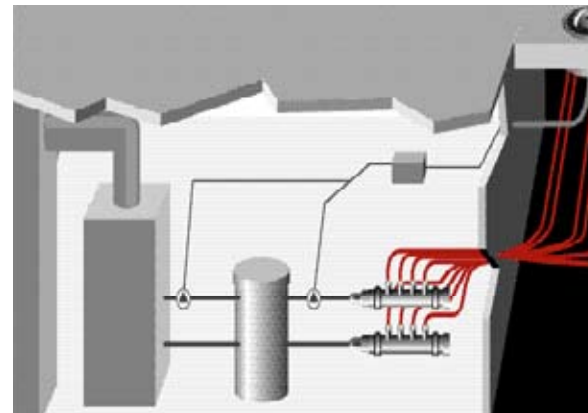
SIM systems can be installed in any number of different substrates including concrete, sandbeds and under asphalt. And REHAU's fastening systems are designed to ensure fast, economical installations in a wide variety of foundation materials.



Coiled beneath the entrance to this church, a RAUPEX SIM system keeps the walkway free of hazardous ice and snow.



The upper illustration depicts a SIM installation under brick pavers using screw clips to secure the RAUPEX pipe. The lower illustration is another typical installation, concrete overpour using wire mesh and ties to anchor the RAUPEX.



A typical SIM control system works with conventional heating equipment. Automatic sensors not only turn the system on when snow starts and turn it off in warm weather, but also adjust the water temperature to adapt to changing conditions.

Quality That Protects Your Reputation



To reduce snow removal costs and increase accessibility, the developer and homeowners in this new Steamboat Springs, Colorado, community chose a REHAU SIM system.



During resurfacing of this entrance ramp at Radio Québec, engineers installed a SIM system to increase safety and eliminate expensive maintenance and snow removal.



How to Begin

Contact our technical support team. In addition to answering your questions, they can tell you about WarmSource™, our Windows-based software program, that helps estimate your system requirements, and our comprehensive manual to guide you through each step of your system design.

For updates to this publication, visit
na.rehau.com/resourcecenter

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