

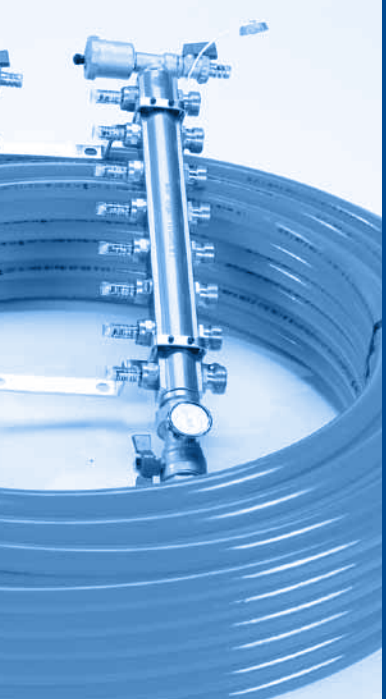
A man with dark hair and a beard, wearing a black t-shirt, is leaning over a desk. In front of him is a large coil of red PEX tubing connected to a brass manifold with multiple ports. To his right is a laptop displaying a 3D architectural rendering of a building's floor plan. The background is a bright, modern office setting with large windows.

# Complete Heating Solution in One Integrated System.

Vanguard Hydronic Radiant Heating

 Vanguard Pipe  
& Fittings Ltd.

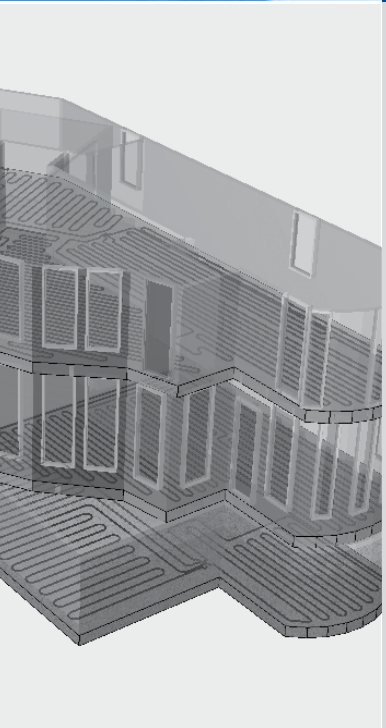
For more information, please visit [www.vanguard.ca](http://www.vanguard.ca)



### ▶ **Manifolds and Tubing**

Vanguard's line of carefully selected tubing and manifolds give the installer total flexibility. Our manifolds provide cost effective solutions for simple, moderate, or even complex applications.

PRODUCT



### ▶ **Radiant Design Software**

Vanguard's easy-to-use design software offers time saving features that make it easy for even novice users. We take out the confusion and provide detailed reports and component information for simplified ordering when your design is complete. Vanguard also offers professional design assistance when needed.

DESIGN



### ▶ **Technical Support**

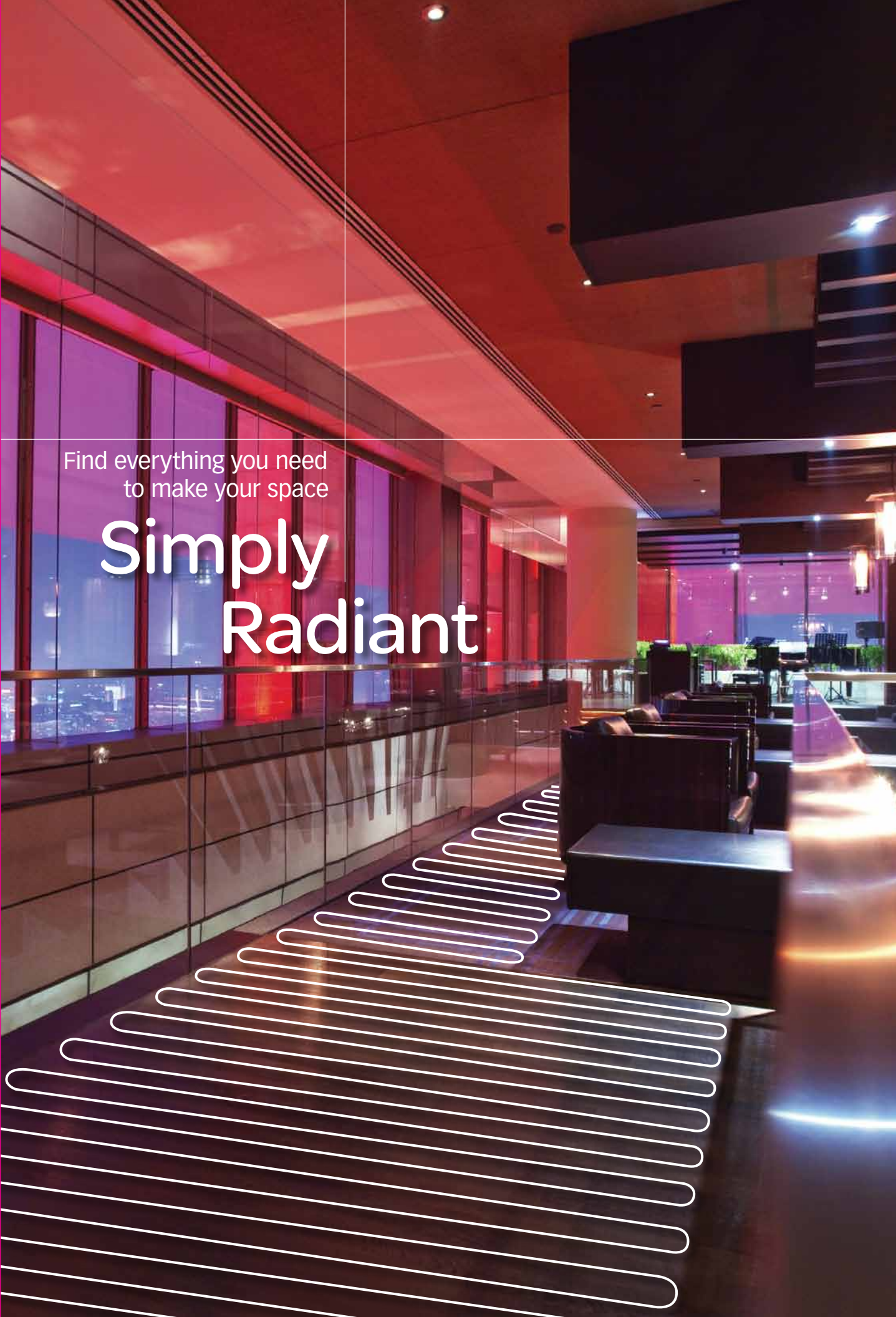
Vanguard provides you with knowledgeable assistance in all your project steps. Our professional staff are trained to assist you in selecting the right design and products for your application. From our customer assistance to our superb design software, we are able to provide complete project support.

SUPPORT



Find everything you need  
to make your space

# Simply Radiant

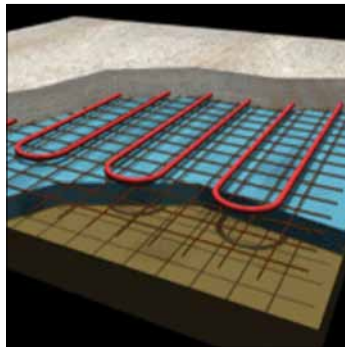


## ▶ Radiant Floor Heating and Snow / Ice Melt Systems

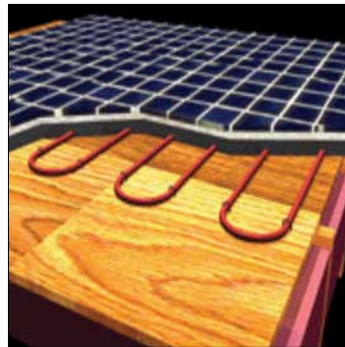
Vanguard's Hydronic Radiant Heating is used in both residential and commercial construction projects to achieve a comfortable environment for any home or workspace.

Our radiant heating can be used as either a primary or secondary heating source, for floor warming, or as a snow or ice melt system. Our versatile design provides a solution for every project.

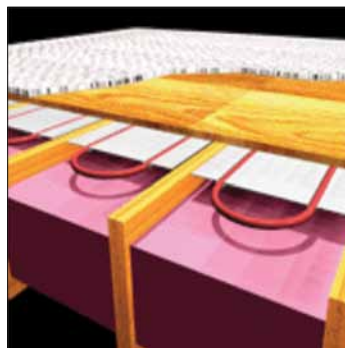
### Application of CANPEX™ Oxy Barrier pipe



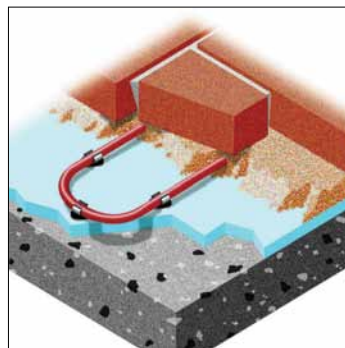
Radiant floor heating and snow and ice melt applications



Thin-slab systems



Under or over the floor radiant systems with heat transfer plates



In conjunction with inter-locking, concrete and even asphalt for snow and ice melt applications

## ▶ Vanguard Products



Vanguard's **CANPEX™ Oxy Barrier**, manufactured in Canada, is durable, flexible and easy to install. For radiant applications, it is extruded with an oxygen barrier layer to prevent system components corrosion. CANPEX is manufactured and tested to the requirements of ASTM F876/F877 and to CSA B137.5.



The Vanguard **Manifold** is the answer to every customer's radiant flooring needs. It offers a cost effective solution for all project sizes, and can be used in both residential and commercial systems. Our manifold is sold with everything needed for a seamless installation, including air vents, flow meters, temperature gauges and shut-off valves, thus eliminating extra cost for your customer.

## ▶ Certification / Standards / Codes

CANPEX™ Oxy Barrier pipe is manufactured in compliance with the following codes/standards:



NSF International  
Performance and  
Health Effects  
(Standards 14 & 61)



ULC/UL S101/UL263 Listed  
for Fire Resistant & Firestop  
Products & Systems



Warnock Hersey  
Certified to  
ULC S102



IAPMO Certified



NSF certified to  
CSA B137.5

(CTS) Copper tube size  
SDR-9 wall thickness  
ASTM F876/F877  
DIN 4726

## ▶ Warranty

Vanguard warrants our Hydronic Radiant Heating tubing for 25 years from the date of installation. You can be assured of the durability and reliability of Vanguard tubing components in our Hydronic Radiant applications.





# Vanguard Pipe & Fittings Ltd.

Vanguard products are distributed exclusively  
in Canada through CB Supplies Ltd.  
Please contact your nearest CB Supplies representative.



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