



RAUTITAN - WATER. GAS. HEATING. FOR THE GENUINE PLUMBER



RAUTITAN represents the highest in **QUALITY, INNOVATION and SERVICE** delivering a **GENUINE ADVANTAGE** for our customers.



More than 150,000 plumbers
in more than 40 countries
TRUST REHAU everyday

QUALITY

Developed in collaboration with designers, installers, builders and developers across the globe RAUTITAN represents the result of over 60 years experience in polymer processing and industrial manufacturing.

Produced in state-of-the-art manufacturing facilities with advance quality management processes, ensure all system components combine seamlessly for a reliable and robust system. Online laser monitoring of our RAUTITAN PX fittings ensure a 100% check of each fitting before it is released.

As a global supplier of materials for a diverse range of industries REHAU understands what is required to get the job done. From the world renowned PE-Xa and multi-layer (PE-X – Al – PE) pipe systems or the German engineered dezincification resistant brass and now the RAUTITAN PX PPSU fittings and easy-slide reversible PVDF sleeves.

INNOVATION

As a partner of the global construction industry for over 40 years REHAU is dedicated to meeting industry challenges such as sustainability, efficiency and reliability. With significant investment in R&D REHAU has delivered countless patents and innovations such as the new RAUTITAN PX polymer fitting. RAUTITAN PX not only provides for an easier installation with the easy-slide reversible sleeve but also provides improvements with regard to hygiene and joint security.

We continue to invest and develop new materials, designs and technology to meet the future requirements of our industry.



NEW
RAUTITAN PX
Easier. Faster. More Secure.

SERVICE

For more than 20 years REHAU has been supporting and servicing the Australia and New Zealand plumbing industry. Our team of **qualified technical sales managers** located across the region supported by our **central design and engineering team and customer service** are dedicated to ensuring our customers enjoy the best quality and service.

The quality of our system is only as good as its design, installation and operation. **REHAU training academies** are available to ensure that the best of the system is realised.

Single **25 year**
Warranty:
Water. Gas. Heating.

RAUTITAN - WATER. GAS. HEATING.

RAUTITAN is a comprehensive system for internal hot & cold water services, gas services and hydronic heating systems, including PE-Xa pipe, multi-layer (PEX-Al-PE) pipe, compression sleeve fitting system and a range of professional installation tools, RAUTOOL.



WATER SERVICES

The RAUTITAN Water services provide a complete solution of pipe and compression sleeve fittings for all internal building water services including:

- RAUTITAN platinum** - hot & cold drinking water (16 - 63mm)
- RAUTITAN red** - hot water (16 - 25mm)
- RAUTITAN green** - rainwater (16 - 63mm)
- RAUTITAN lilac** - recycled water (16 - 63mm)



GAS SERVICES

RAUTITAN gas is specifically designed and tested for LPG and NG application in Australia and New Zealand. Consisting of a composite (PEX-Al-PE) pipe system and individually tested DZR brass compression sleeve fittings from sizes 16-40mm.



UNDERFLOOR HEATING

REHAU provides a complete system for hydronic heating including PE-Xa pipe, manifold, floor systems, room thermostats and control systems.

RAUTITAN WATER

REHAU comprehensive range of pipe and fittings from sizes 16-63mm across all applications is the most comprehensive range available in the market, covering hot & cold drinking water, specifically red coloured pipe for hot drinking water application, as well as rainwater and recycled water.

RAUTITAN Platinum - hot and cold drinking water



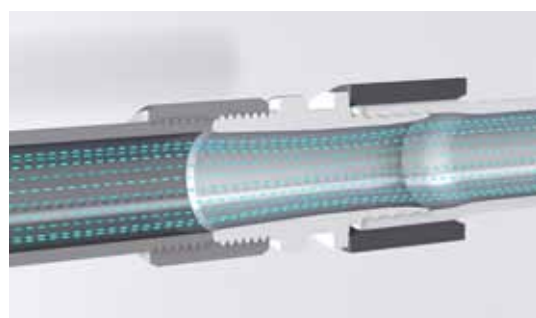
RAUTITAN Red - hot water

RAUTITAN Green - rainwater

RAUTITAN Lilac - recycled water

RAUTITAN WATER

ALL SIZES. ALL APPLICATIONS.



OPTIMUM HYDRAULIC PERFORMANCE

During connection the PE-Xa pipe is expanded and the fitting barb inserted. Due to the expansion there is a minimal reduction of bore size on the joint and hence a significant reduction in hydraulic losses.

Due to the smooth inner bore and reduced fitting losses the RAUTITAN water services system provides up to 30% less hydraulic losses compared with similar radial press systems.

30%
better flow



FUTURE PROOF YOUR BUILDING

Water quality varies across the globe and even across countries. With the depletion of water resources we see the emergence of new water sources such as desalination, recycled water, rainwater and bore water; each with a varied level of pH, mineral content, pathogens and other impurities. As the understanding of health impacts with regard to water quality grows we see increasing requirements for plumbing systems and quality of water from the tap.

The RAUTITAN Water services system has been designed to comfortably cater for the variability of water and ensure pure drinking water is delivered to the tap without the impacts of corrosion or incrustation.

Smooth pipe interiors of the advanced PE-Xa pipe prevent sustained incrustation.

Expansion of the pipe for fitting connection reduces hydraulic losses and prevents any build up of water impurities.

High quality Dezincification Resistant (DZR) brass fittings and advanced PE-Xa pipe materials have been further enhanced with the introduction of the innovative all-polymer RAUTITAN PX fitting range for all non-threaded fittings (16-40mm).

Service life
> 50 years



SUPERIOR TEMPERATURE AND PRESSURE RESISTANCE

During installation and/or operation, temperature and pressure conditions can change and cause significant stress, potentially resulting in system failure. Tested, proven and certified for continuous temperature and pressure of up to 70°C, 10 bar (service life >50 years) and short term temperatures of up to 100°C, the RAUTITAN system provides superior security.

Burst Pressure
up to 70 bar

RAUTITAN PX

EASIER. FASTER. MORE SECURE.



EASIER

REHAU's simple and secure compression sleeve joint is now even simpler. With the new easy-slide reversible sleeve you can forget about checking the sleeve end before making a joint. Made from robust, lightweight polymer (PPSU) the PX fitting weighs approximately 80% less than similar brass fittings. Reduce the time and inconvenience of returning to the van or store to get extra fittings by carrying up to 5 times more fittings.

80% lighter

Easy-slide reversible sleeve



FASTER

The new easy-slide PX compression sleeve joint can be completed up to 20% faster with 30% less effort. With no need to check the sleeve end and the easy-slide characteristics of the joint, installations are completed quicker and simpler, with the 100% REHAU security guarantee.

20% faster
30% less effort

MORE SECURE

The advanced polymer materials of RAUTITAN PX have been tested and engineered to meet the highest REHAU quality standards. Tough and durable, PX fittings do not display the same corrosion effects as can be seen in metal fittings, do not tend to scale and are hygienically non-hazardous – the ideal fitting for drinking water installations with the additional peace of mind against scrap-value theft.

RAUTITAN PX compression sleeves are made from PVDF (polyvinylidene fluoride) and the fittings are made from PPSU (polyphenyl sulphone). Both high performance polymers have proven their many qualities, in applications such as aircraft construction and in clean room production.

The materials stand out thanks to their high impact strength and excellent temperature resistance. The benefits to the user:

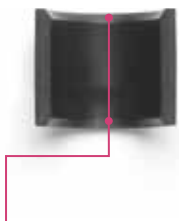
RAUTITAN PX elements are especially light and they can be safely processed, even at extreme temperatures of -10°C.

Manufactured in our state-of-the-art, fully automated facility in Bavaria, Germany, the PX fittings are produced with only superior virgin materials with large-series injection molding machines. Each PX fitting is 100% laser tested during production providing 100% security of dimensional stability and guaranteeing a leak-proof joint.

For safe processing:
Tool location tabs for precise positioning of the assembly tools RAUTOOL

DESIGN PLUS

Honoured with the Design Plus award by the German Design Council within the Scope of the Material Vision 2009 fair. Design Plus means outstanding material quality and excellent design.



Flexible usage:
Compression sleeves can be fitted from both sides



Light, but with strong resistance to breaking:
RAUTITAN PX effortlessly absorbs very high strains



Awarded by the MunichExpo for especially innovative product properties and design quality.

REHAU COMPRESSION SLEEVE TECHNOLOGY

SIMPLE. ROBUST. RELIABLE.



Over 20 years in more than 40 countries REHAU compression sleeve technology has proven over and over again to be the most secure, reliable and robust connection.

REHAU's compression sleeve connection creates a permanently sealed mechanical joint that requires no o-rings guaranteeing a service life > 50 years. Be certain your joint is secure with a quick visual inspection to ensure the sleeve is pulled up to the fitting collar. Tested against temperature fluctuations, pressure and mechanical stresses over the long term ensure the REHAU compression sleeve technology is suitable for all conditions of heating, plumbing and gas service applications.

3 STEPS TO SECURITY TO MAKE A 100% LEAK-PROOF JOINT



1. Expand the pipe x2 (rotate 30°)



2. Slide in fitting



3. Compress and complete!

RAUTITAN GAS

QUICK. EASY. SAFE AND SAVINGS.



Made from the highest quality materials and specifically designed for installers convenience, RAUTITAN gas is your ideal option for internal natural gas (NG) and liquefied petroleum gas (LPG) installations in both residential and commercial buildings. REHAU has taken the time to check and re-check every aspect of the RAUTITAN gas system so you can be sure that every installation will be achieved quickly, safely, economically and most importantly be reassured that the system will continue to perform day after day.

As part of the RAUTITAN range all RAUTOOLS are compatible for water, heating and gas services. Reduce your risk of installation error by utilising the simple, robust and reliable compression sleeve technique to switch effortlessly between applications.

Save over 25% on material and installation costs compared with traditional metallic systems such as copper.

Save over **25%**
on material and
installation



Most Flexible Pipe
on the market

MAXIMUM FLEXIBILITY

Even the tightest bends can be completed without a fitting utilizing the superior flexibility of the RAUTITAN gas stabil pipe. With the inner PE-X layer providing the pipe structural integrity, only a thin aluminum layer is required, hence providing maximum flexibility.

TRIED AND TESTED

REHAU's guarantee of security and performance is backed by a rigorous, additional and independent test program. Additional tests include joint performance tests under local gas condensation and long-term temperature resistance up to 90°C to replicate Australian and New Zealand roof conditions.

Independently certified to Australian standard AS 4176.8. Suitable for installation according to Australian and New Zealand installation standard AS/NZS 5601.1

FIRE PROTECTION

RAUTITAN gas stabil pipes are independently tested and approved for penetration of fire rated building elements. Fire Resistance Level testing with approved and commonly available fire collars confirms the RAUTITAN gas system is suitable for most commercial applications.

Maximum
Temperature
Resistance 90°C

| RAUTITAN Gas Pipe Size | 16.2 x 2.6 | 20 x 2.9 | 25 x 3.7 | 32 x 4.7 | 40 x 6.0 |
|---|--|-----------|-----------|-----------|----------|
| FRL Ratings: | Load Bearing / Integrity / Insulation | | | | |
| Wall construction: 128 mm thickness stud plasterboard wall - protected by PROMASTOP® UniCollar® fire collar on both sides | -/180/180 | -/180/120 | -/180/120 | -/180/60 | -/180/30 |
| Floor construction: 120 mm thick concrete floor slab - protected by PROMASTOP® UniCollar® fire collar on the fire exposed side only | -/240/180 | -/240/120 | -/240/90 | -/180/120 | -/120/30 |

RAUTITAN UNDERFLOOR HEATING

EFFICIENT. SAFE. STYLISH AND COMFORTABLE.



REHAU
QUALITY

ENERGY
EFFICIENCY

A SOLUTION FOR EVERY INSTALLATION

Whether a new build or refurbishment, REHAU offers an installation system that suits your project and most floor cover types, **including polished concrete, timber floors, carpet, tiles and more.**

FLEXIBLE + TOUGH = EASY & SAFE INSTALLATION

Tested for over 30 years against the toughest construction site conditions across the globe, REHAU's world renowned PE-Xa (cross linked polyethylene) piping system is the toughest on the market. Durable, robust and flexible during installation and resistant to temperature and pressure, short term up to 100°C at 10 bar.

Complemented by the permanent leak-proof compression sleeve jointing technology, REHAU RAUTITAN pink piping system with EVOH oxygen barrier provides a no-worry installation, each and every time.

Up to **30%**
energy savings



Specially designed
for underfloor
heating

MAXIMISE PERFORMANCE WITH OPTIMAL CONTROL

The Room Thermostat Control features an integrated timer which can be programmed to run at any time and offers the option to heat with off-peak energy.

Tailored for every budget, REHAU's Nea control system is specifically designed for Hydronic Underfloor Heating and offers two types of room thermostats, both with integrated timer function. Control each room separately or simply have one thermostat for all.

SERVICE AND EXPERIENCE

REHAU has 30 years experience with Hydronic Underfloor Heating throughout the world and is now bringing its expertise and superb technology to Australia and New Zealand.

Whether your project is a family home or 4-storey high rise development, REHAU is your design partner. Our central office and experienced engineers can provide advise regarding energy sources, hydraulics, pipe layout, floor structure and more.

Submit your project details (description and CAD drawing) to our central design team. We can provide a detailed design to take your project from concept to installation.

Email – designassist.anz@rehau.com

More than
30 years
experience

RAUTOOLS

UNIVERSAL AND PROFESSIONAL

The quality and security of the RAUTITAN compression sleeve joint is only possible with the use of the universal and professional RAUTOOL assembly tool range. Developed specifically for the RAUTITAN system, the RAUTOOL program has been designed for the REHAU installer and is constantly being upgraded and improved by our research and development team.

Only RAUTOOL assembly tools guarantee easy installation and fully leak-proof connections. Its compact construction simplifies handling and also makes it possible to install in the toughest construction sites. Available in a multitude of modular options, the RAUTOOL program can be tailored to the individual needs of each and every installer.

Simple mechanical design and robust materials ensure long-lasting performance, minimal tool maintenance and regular calibration.



QUALITY AND CERTIFICATIONS

The global RAUTITAN system is independently tested and locally approved by leading laboratories and authorities. Tests are carried out according to relevant standards such as British (BS 7291 Part 1, 3), Australian (AS/NZS 2492, AS/NZS 2537, AS/NZS 4020, AS/NZS 4176, AS/NZS 4176.8) and American (ASTM F 876) standards.

| | | | | | | | | |
|-------------|---|------------------------|-----------|---|---------------------------|-----------------|---|-----------------------|
| Australia | : | Watermark | Hong Kong | : | Office of Water Authority | Singapore | : | PUB, Water Department |
| New Zealand | : | BRANZ | Malaysia | : | SIRIM | United Kingdom: | | WRAS |
| Taiwan | : | Taipei Water Authority | Japan | : | JWWA | | | |



REHAU SERVICES



TRAINING AND CERTIFICATION

REHAU are committed to the quality of our systems during design, installation and operation. To ensure our customers enjoy the maximum benefits of the system REHAU have established a training and certification program for all our products; the REHAU Authorised Installer Network (RAIN). Each RAIN member has been expertly trained by REHAU and has access to the complete REHAU design and technical support service.

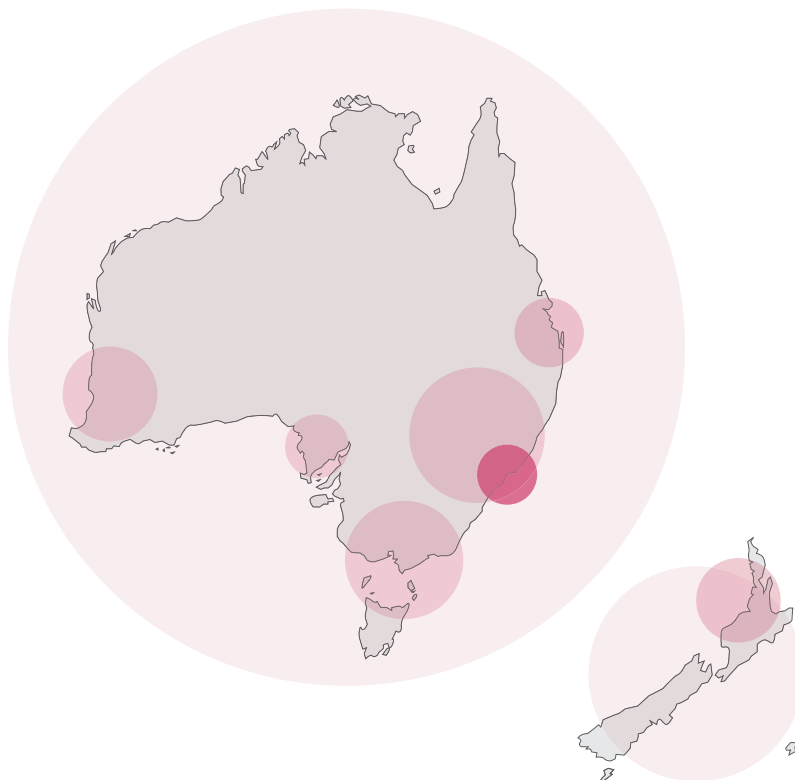


PROJECT DESIGN AND TECHNICAL SUPPORT

Our expert team of engineers are available to support you in technical queries such as regulation and application issues plus a complete design service for under floor heating.

AVAILABILITY

No matter whether you are in Karatha or Kempsey you will be able to find a REHAU distributor to get the job done. Available from all major plumbing outlets across Australia and New Zealand.





1 Olinda Ave., WA, Australia
2 Bel-Air No. 8, Hong Kong, China
3 Traders Hotel KLCC, Kuala Lumpur, Malaysia

4 Eureka Tower, Melbourne, Australia
5 Federation Square, Melbourne, Australia
6 Albany Entertainment Centre, Australia

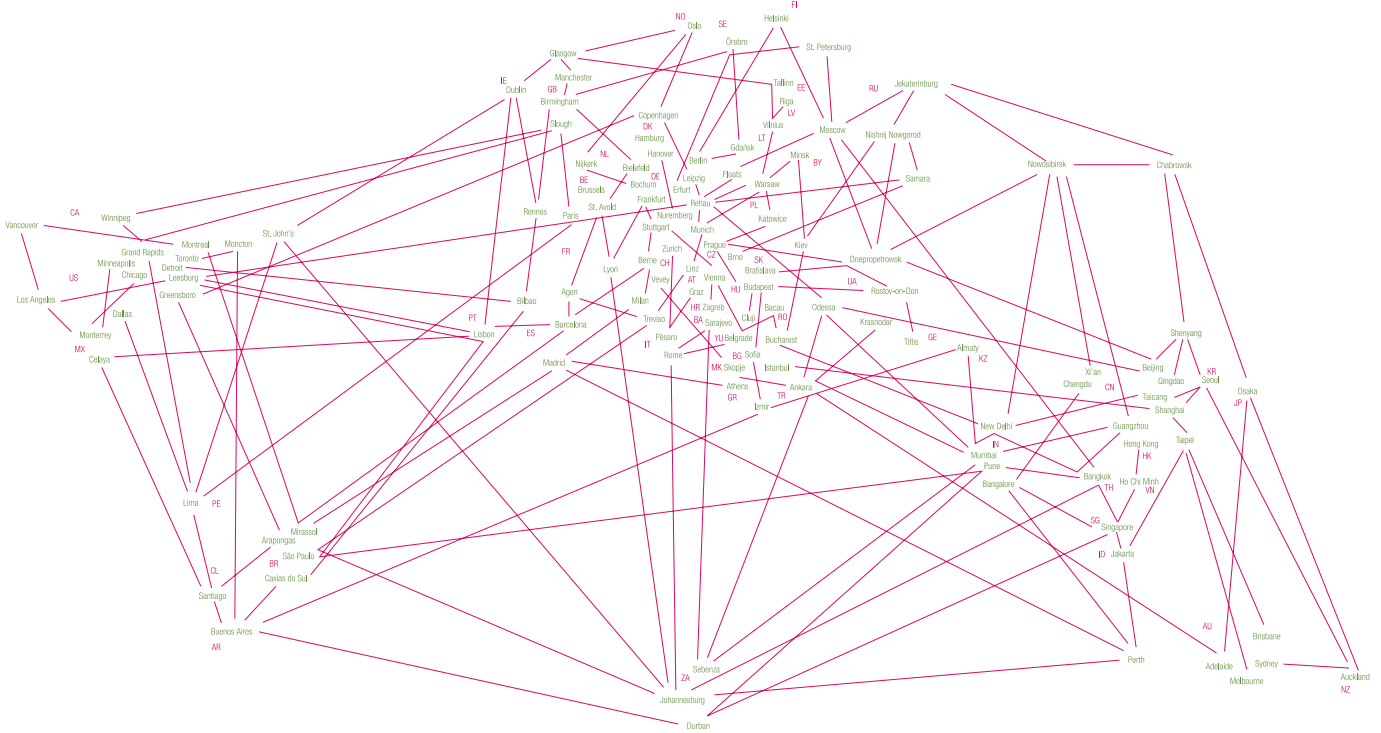
REHAU SERVICES

PROJECT REFERENCES IN ASIA/AUSTRALIA

Since the 1980's, millions of connections have been created in Austria, Australia, Canada, Czech Republic, Denmark, Great Britain, Hong Kong, Hungary, Germany, Japan, Malaysia, Netherlands, New Zealand, Philippines, Poland, Portugal, Singapore, Spain, Switzerland, Taiwan, Thailand and the USA by using REHAU compression sleeve jointing technology. RAUTITAN system has proven to meet all the requirements of the plumbing trade.



| Building | Description | Location |
|-----------------------------|--|---------------------------|
| Eureka Tower | 90-storey, 572 units apartment | Melbourne, Australia |
| Federation Square | Landmark of Melbourne | Melbourne, Australia |
| Fairlanes Apartments | 142 Apartments | Perth, Western Australia |
| Queens Riverside | 150 Room Hotel | Perth, Western Australia |
| Olinda Avenue | Family Home | Perth, Western Australia |
| Albany Entertainment Centre | Performing Arts and Convention Centre | Albany, Western Australia |
| JW Marriott Hotel | 287 rooms | Medan, Indonesia |
| Traders Hotel KLCC | 36-storey, 571 rooms | Kuala Lumpur, Malaysia |
| Central Park Tower I & II | 8-Block, 2864 units apartment | Hong Kong, China |
| Bel-air No.8 | 8-Tower, 709 units apartment | Hong Kong, China |
| Radisson Hotel Cebu | 400 rooms | Cebu, Philippines |
| Sandalwood | 5-storey, 24 units apartment and 2-storey, 16 terrace houses | Singapore |
| Marina Integrated Resort | North and South Podium | Singapore |
| Luxus Hills | 3-storey, 78 terrace and 8 semi-detached houses | Singapore |



Our verbal and written advice relating to technical applications is based on experience and is to the best of our knowledge correct but is given without obligation.

The use of REHAU products in conditions that are beyond our control or for applications other than those specified releases us from any obligation in regard to claims made in respect of the products.

We recommend that the suitability of any REHAU product for the intended application should be checked. Utilization and processing of our products are beyond our control and are therefore exclusively your responsibility. In the event that a liability is nevertheless considered, any compensation will be limited to the value of the goods supplied by us and used by you.

Our warranty assumes consistent quality of our products in accordance with our specification and in accordance with our general conditions of sale.

This document is protected by copyright. All rights based on this are reserved. No part of this publication may be translated, reproduced or transmitted in any form or by any similar means, electronic or mechanical, photocopying, recording or otherwise, or stored in a data retrieval system.

REHAU Branches in Asia/Australia

Regional Office for Asia/Australia

SINGAPORE

1 King George's Avenue, REHAU Building, Singapore 208557 Tel: +65 6392-6006 Fax: +65 6392-6116

AUSTRALIA National Customer Centre Tel: 1300 768 033 Adelaide Tel: +61 8 8100-3500 Brisbane Tel: +61 7 5527-1833 Melbourne Tel: +61 3 9586-3100 Perth Tel: +61 8 9456-0700 Sydney Tel: +61 2 8741-4500 **GREATER CHINA** Beijing Tel: +86 10 6428-2956 Chengdu Tel: +86 28 8628-3218 Guangzhou Tel: +86 20 8776-0343 / 3646 Hong Kong Tel: +852 2898-7080 Qingdao Tel: +86 532 8667-8190 Shenyang Tel: +86 24 2287-5807 Taicang Tel: +86 512 5337-2815 Taipei Tel: +886 2 8780-3899 Xi'an Tel: +86 29 6859-7000 **INDIA** Bangalore Tel: +91 80 2222-0014 ~ 0015 Mumbai Tel: +91 22 6148-5858 New Delhi Tel: +91 11 4504-4700 ~ 4705 Pune Tel: +91 21 3530-4801 **INDONESIA** Jakarta Tel: +62 21 4587-1030 **JAPAN** Tokyo Tel: +81 3 5796-2102 **KOREA** Seoul Tel: +82 2 5011-656 **NEW ZEALAND** Auckland Tel: +64 9 2722-264 **THAILAND** Bangkok Tel: +66 2 7443-155 **VIETNAM** Ho Chi Minh City Tel: +84 8 3823-3030