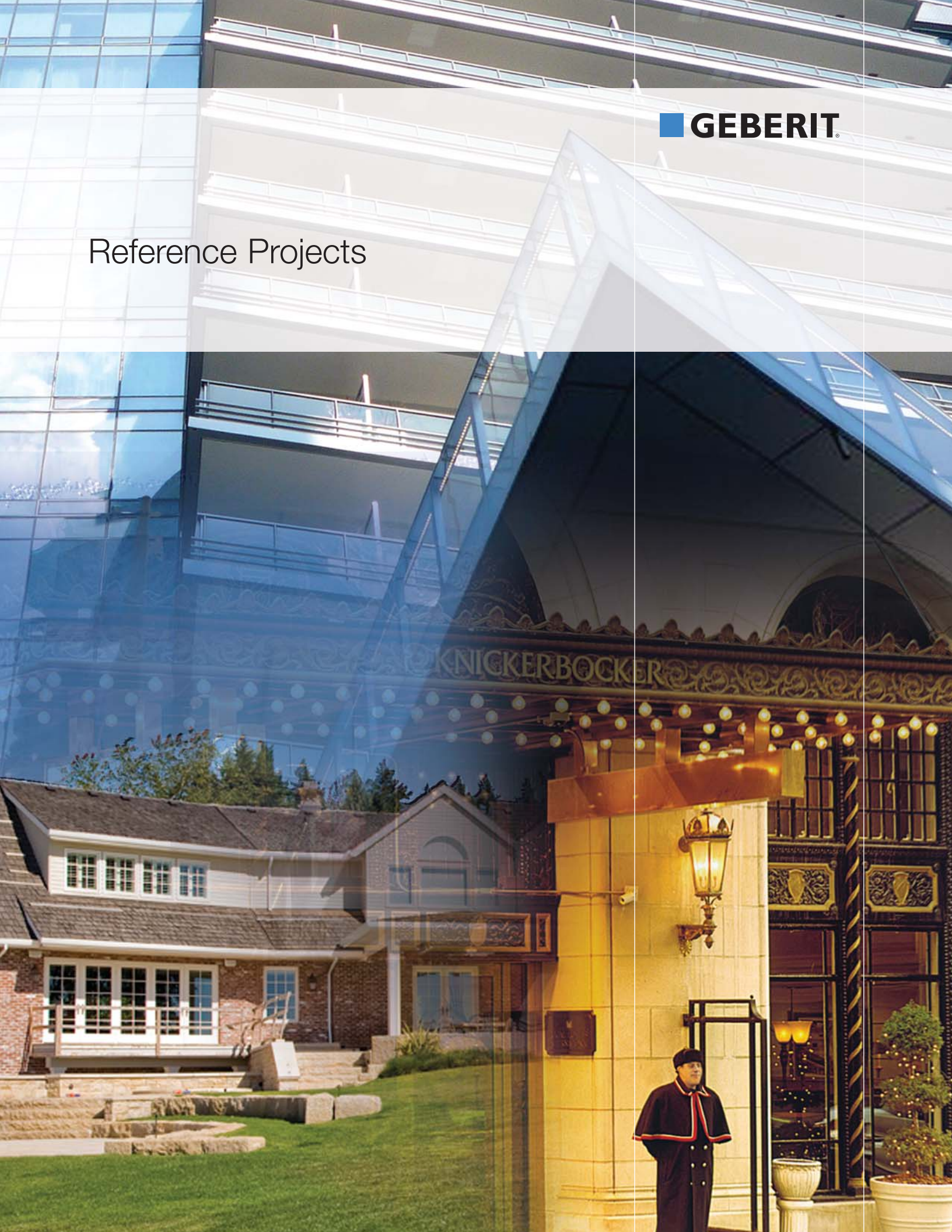


■ GEBERIT®

Reference Projects



Shangri-La Hotel and Condominium Complex, Vancouver

New luxury hotel meets water savings objectives with concealed carrier and wall-hung toilets.

The Challenge

The legendary Shangri-La has branched out into North America with the opening of its 5-star, 119-room luxury hotel and 420 unit condominiums – making it the tallest building in Vancouver, British Columbia. Listed third in the World's Top 100 Most Livable Cities, Vancouver boasts forward-thinking with environmentally sensitive developments – especially of this scale. The Shangri-La complex is LEED® Silver certified, which, for a luxury development, is no small feat. Overlooking downtown Vancouver, the Shangri-La Hotel occupies the first 15 floors of this landmark building; private condos, commercial offices, two restaurants, a full-service spa, a health club and numerous retail stores round out the facilities.

Guests at global Shangri-La Hotels are accustomed to contemporary Asian luxury. Vancouver's Shangri-La is no exception; the suites are decorated in warm latte tones and contemporary Asian style. No detail has been overlooked – even in the guest bathrooms where a walk-in shower with three separate showerheads stands apart from the tub and a television is embedded within the bathroom's mirror. The luxury hotel offers amenities and accommodations that bring to life the unique Asian hospitality, serenity and caring service that Shangri-La Hotels and Resorts represents.



“Our challenge and dictate was to match the elegance and serenity of the hotel's modernism décor style in the condo restrooms' plumbing,” which included consideration of very quiet, concealed toilet tanks, according to Pete Simons, Project Manager, GML Mechanical Ltd., Delta, British Columbia, the professional plumbing contractor for the Shangri-La. “Long-term water savings, environmental sensitivity, meeting Vancouver's BuildSmart and SmartSteps programs and LEED requirements were also of major consideration – not to mention the utilitarian need of easy cleaning and maintenance of the restrooms.”

The Solution

The Shangri-La complex, one of the few luxury buildings in the world to achieve LEED Silver certification, also met the requirements of the Canadian Uniform Plumbing Code and Vancouver's water-saving programs by incorporating 420 of Geberit's UP300 Concealed Tank

and Carrier Systems with Samba Dual-Flush Actuators in the condominiums. The carrier system was complemented with Duravit's Darling model wall-mounted toilets.

“Geberit's in-wall system was chosen not only because of the dual-flush capacity and water efficiencies, but for its quiet flushing and short refill times,” which, according to Simons, “was a major consideration, along with easy cleaning of the wall and the floor under the wall-hung water closets and meeting the aesthetic requirements of a concealed installation.”

Not only do Geberit's concealed tank and carrier systems provide the Shangri-La with water-saving revenue, but they also increase the water efficiency within buildings and reduce the burden on Vancouver's municipal water supply and wastewater systems.

Shangri-La condo occupants are sure to be impressed with the luxury accommodations in the bathrooms. Will restroom visitors take for granted, however, the inherent quietness of Geberit's hidden tank and carrier system? Will they even be aware of the water-saving per-flush economies of the dual-flush system using 0.8 gpf (3 LPF) or 1.6 gpf (6 LPF)? Perhaps they need not know.

Architect: Hariri Pontarini Architects
Owner: Peterson Investment Group, Westbank Projects Corp.
Interior Designer: James K M Cheng

Millennium Knickerbocker Hotel, Chicago

Hotel maintains historic character while meeting sustainability objectives with modern plumbing.

The Challenge

In the heart of downtown Chicago sits the Millennium Knickerbocker Hotel – rich in tradition and exuding timeless elegance and luxury from every room. Opening its doors on May 16, 1927, the hotel was designed in an eclectic style. Today, after recent renovations, the 186,000-square-foot, 14-floor hotel offers the glamour and allure of the roaring '20s combined with modern amenities, the latest technology, the highest standards of hospitality and eco-friendliness.

Maintaining the elegance and renovating the restrooms to bring them up to par proved to be a design challenge. "Our challenge in updating the restrooms was to utilize the original restroom space to its fullest extent and use the most water-efficient, space-saving toilets, which meant an in-wall carrier system," says Carl Darr, Principal of Gibson/Darr Architecture and Consulting. Darr managed the project



design, including the mechanical, electrical, plumbing and fire protection components of the renovation.

"As the Knickerbocker is on the list of Historic Hotels of America (HHA), which has its own sustainability policies," says Darr, "another challenge presented itself: maximize the space available, create bathrooms with striking designs that incorporate upscale fixtures and amenities, and also meet the program's water-saving guidelines."

Another consideration and challenge, according to Darr, was adhering to the Millennium Hotels' corporate water savings policy. As part of its eco-friendly initiatives, rooms in all 15 U.S. hotels must be equipped with showerheads, faucets and toilets that conserve water. This requirement coincides with the HHA sustainability policies that recognize historic preservation as an important component of any effort to promote sustainable development, including saving water.

The Solution

Geberit's Concealed Tank and Carrier System with a Dual-Flush Actuator and Duravit's Darling series wall-mounted toilets directly addressed the challenges of space and water conservation in the Millennium Knickerbocker. By replacing more than 300 floor-mounted toilets with Geberit's dual-flush system's inherent water-saving capability, the historic hotel was able to meet – and exceed – the guidelines of 0.8 gpf (3 LPF) or 1.6 gpf (6 LPF) per flush.

"We chose Geberit's in-wall system because of the product's availability, tech support and track record of Geberit's in-wall system. Installation of the UP300/UP320 was easy because we could run the pipe horizontally at the right slope and not have to drill new holes in the floor, especially important in a renovation," explains Darr. Duravit's Darling wall-mounted toilet was chosen because of its contemporary design, versatility, coordination ease and budget-minded pricing. It's the perfect complement to an updated restroom.

Knickerbocker Hotel guests may take for granted the inherent water and cost savings and just admire the elegance.

Architect: Gibson Darr

Owner: Millennium & Copthorne Hotels plc

Interior Designer: Jinnie Kim

High-End Estate Interior Design Project, Oregon

Estate homes have one thing in common: the uncommon.

The Challenge

When one of Liz Murray's clients asked her to design the bath spaces for the exercise room and pool house for their 10,000-square-foot home, she offered an uncommon idea: Pair a wall-hung toilet with a concealed tank and carrier.

"I had been familiar with Geberit products ever since I graduated from design school," Murray explains. "Because I traveled throughout Europe and was familiar with Geberit – for example, besides homes, many German and Swiss hotels use the Geberit concealed tank system – I had many ideas to draw from. The client was looking for new ideas, and I brought the concealed wall-hung toilet to their attention. My client instantly fell in love with the entire concept of taking the toilet 'off' the floor

"There is no question about it being a more sleek design; with no tank sitting there, exposed," Murray continues. "A toilet tank continually fights with designs. Geberit solved that problem by putting the 'tank' in the wall."

The Solution

"The 'tank' is actually a one-piece, integrated gravity flush tank made of high-density polyethylene (HDPE)," says Neal Van Zante, the contractor in charge of the entire remodeling project who brought



Murray's design to reality. "Each tank is individually leak-tested for reliability and reinforced to prevent collapse. We look at details like this, not only as a point of differentiation for our customers, but to know that the designs stand up to use."

In addition to leak-testing, the Geberit tank and carrier system is insulated to prevent condensation inside the bathroom wall. "That's very important no matter where you build, but particularly here in Oregon," Van Zante emphasizes. "We've had absolutely no issues with the Geberit concealment of the tank. In fact, the clean look... the adjustability of the height... how easy it is to clean around the back and below the toilet, it all makes so much more sense than having a traditional toilet on the floor."

The plumber who installed the fixtures concurs. "We've done about 20 of them," says Jeff Seyles of Seyles Plumbing. "They are solid, they are clean and good looking in the bathroom. For tight spaces, it's just the thing."

The access to the tank is through the wall-mounted actuator flush panel. Geberit's design was engineered for performance, as well as for quick, easy maintenance should the need occur.

"There is just more flexibility for designers," Murray says. "And then there's the hygiene."

Murray, Van Zante and Seyles all agree that raising the toilet off the floor promotes better hygiene in today's residential restrooms "It's just easier to clean the floor," Van Zante says. "In fact, nothing is touching the floor on this design. It's remarkable."

"The installation is a little different, I have to admit," Seyles says. "But the trim is just like a regular toilet, and once you do a couple, even the rough-in takes little more time than a traditional install."

"An estate home is luxurious, but achieving luxury can be as simple as pushing the design of the everyday toilet," Murray adds. "This estate's additions bring a level of luxury to these rooms because of the concealing of the tank on a toilet."

Because it was Geberit, Murray had no hesitation in recommending the design. "I've been familiar with Geberit for years," she says. "When I knew it was a Geberit product, it instantly gave me the confidence to recommend it to my client."

Contractor: Neal Van Zante
Installer: Jeff Seyles, Seyles Plumbing
Interior Designer: Liz Murray

Distinctive...Sustainable...Uncompromising

Geberit's Concealed Tank and Carrier Systems are used around the world, and offer unsurpassed quality and years of trouble-free performance. Simply, they keep the unsightly out of sight.

Aesthetics. Safely hidden behind the wall, Geberit's in-wall technology allows unique beauty from floor to ceiling.

Water Saving. Geberit puts sustainability at your fingertips – bringing real water savings through 0.8 gpf/1.6 gpf Geberit dual-flush technology.

Space Saving. Design possibilities are realized with elegance when the toilet is off the floor. For confined spaces, it's the ideal choice.

Easy to Clean. Because the toilet is off the floor, cleaning the entire area is easy.

Flexibility. The adjustable-height carrier allows you to position the toilet 15" to 19" off the floor for meeting ADA requirements or personal preference.

Strength and Stability.

The Geberit Concealed Tank and Carrier System supports up to 880 lbs., exceeding ASME A112.6.2 strength requirements.

Accessible Maintenance.

The Geberit system offers easy access to all internal components, including the fill and flush valves, through decorative actuator flush panels. No tools are needed for maintenance.

In addition to the projects covered in this brochure, the following list shows some facilities throughout the world that have used Geberit systems. For more choices

and design freedom, specify Geberit Concealed Tank and Carrier Systems for toilets, urinals, bidets and washbasins.

Facility	City	Country
Aldar Headquarters	Abu Dhabi	United Arab Emirates
Alle Bevásárló Központ és Simplon Udvar	Budapest	Hungary
B4 Hotel and Net Center	Padova	Italy
Bakkara Hotel	Kiev	Ukraine
Baur au Lac Hotel	Zurich	Switzerland
Buddha-Bar Hotel	Prague	Czech Republic
Burj Khalifa Tower (Armani Hotel)	Dubai	United Arab Emirates
Cape Town Stadium	Cape Town	South Africa
Expo China Pavilion	Shanghai	China
Expo Performance Center	Shanghai	China
Media-TIC Building Convention Centre	Barcelona	Spain
Nelson Mandela Stadium	Port Elizabeth	South Africa
Neue Monte Rosa-Hütte	Zermatt	Switzerland
OPG Office	Utrecht	Netherlands
Pan Peninsula Residences	London	United Kingdom
Ramada Hotel Resorts, AquaWorld	Budapest	Hungary
Royal Castle Wawel in Krakow	Krakow	Poland
Soccer City	Johannesburg	South Africa
Studentenwohnanlage Olympiagelände Munich Residences	Munich	Germany
Symphony Woontoren Residences	Amsterdam	Netherlands
Vertigo	Luxembourg	Luxembourg
Wimbledon Center Court	London	United Kingdom





Geberit North America is part of the Geberit Group, a European market leader and global provider of sanitary technology. Located in Des Plaines, Illinois, Geberit North America markets concealed installation systems for residential wall-hung toilets and fixtures, as well as bath waste and overflows. Geberit concealed installation system technology enables designers and homeowners to create unique spaces by lifting the bathroom fixtures off the floor and allowing greater flexibility of placement in the bathroom. The result is a clean and modern finish with no visible pipework. Geberit cable controlled bath waste and overflows offer unsurpassed quality and years of trouble-free performance. Critical working parts are outside the waterway, which ensures clog-free operation. Distinctive contoured handles are available in a combination of 23 finishes and materials.

For more information, contact your Geberit sales representative, call 800/566-2100 or go to www.geberit.us.



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